

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P201358

Luminaire Tested: **4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U
Description: 4 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 4K
Light Source: (308) 4000K CCT, 80 CRI LEDS
2UT217098A8404C, 2UT217056A8404B
Ballast/Driver: OSRAM
OT50W0800CC, OT30W0440CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7288.8 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')
CIE Type: Semi-Direct

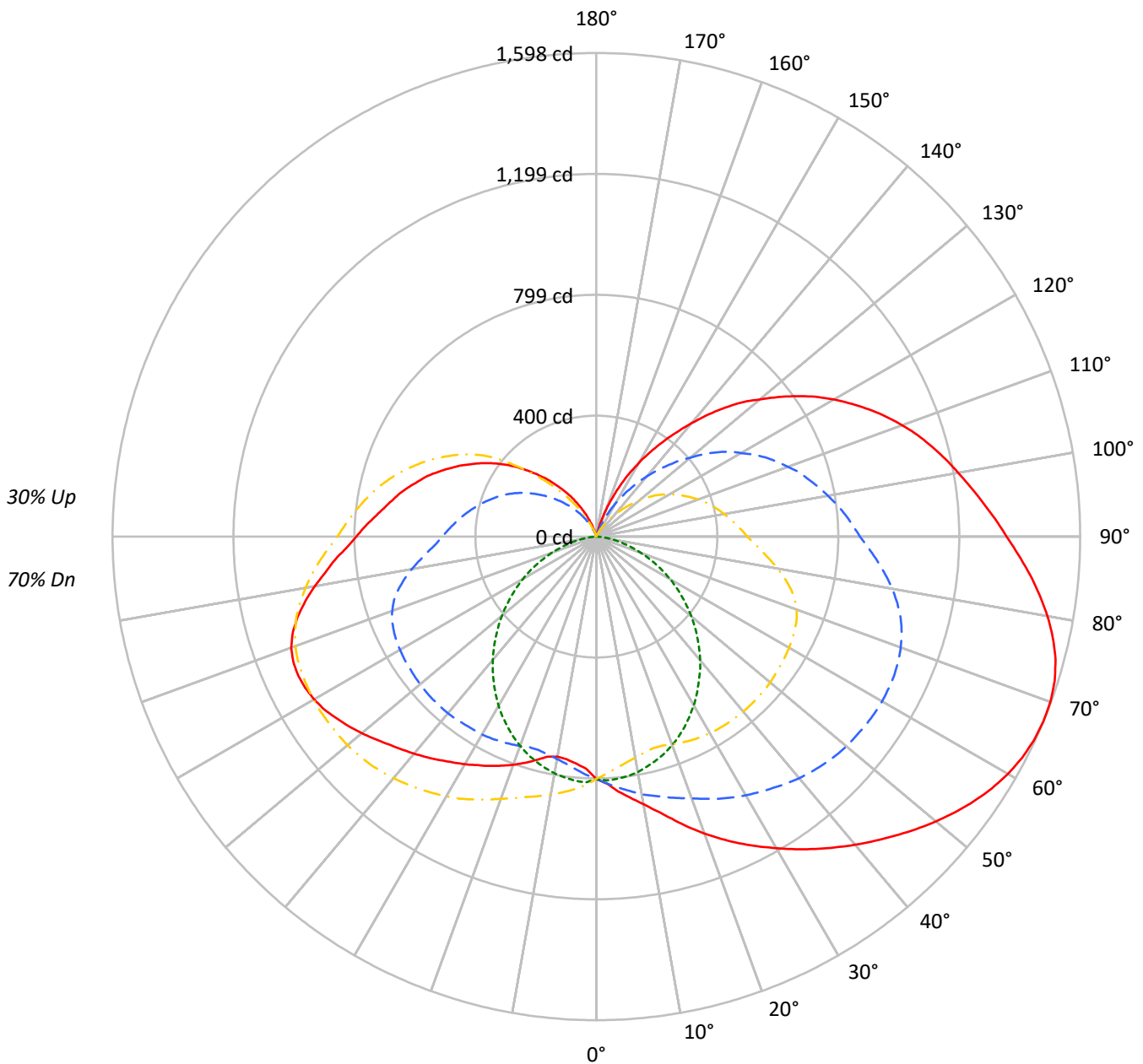
Input Watts (W): 56.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12901	12901	12901	12901
5°	12341	12935	10989	13036
10°	12045	12807	9904	12880
15°	12078	12586	9557	12659
20°	12318	12334	9467	12380
25°	12574	12010	9406	12040
30°	12864	11628	9399	11660
35°	13237	11168	9471	11202
40°	13672	10747	9629	10729
45°	14178	10216	9853	10179
50°	14773	9659	10203	9619
55°	15405	9022	10591	8954
60°	16017	8302	10984	8278
65°	16557	7461	11288	7461
70°	17003	6431	11428	6394
75°	17306	5209	11253	5209
80°	17411	3640	10866	3769
85°	17440	1658	10505	1960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.0
10°-20°	230.5	3.2
20°-30°	388.1	5.3
30°-40°	538.6	7.4
40°-50°	673.7	9.2
50°-60°	782.6	10.7
60°-70°	846.9	11.6
70°-80°	833.3	11.4
80°-90°	739.5	10.1
90°-100°	638.9	8.8
100°-110°	538.8	7.4
110°-120°	422.2	5.8
120°-130°	296.5	4.1
130°-140°	175.4	2.4
140°-150°	80.8	1.1
150°-160°	24.3	0.3
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	695.0	9.5
0°-40°	1233.6	16.9
0°-60°	2689.9	36.9
0°-90°	5109.6	70.1
90°-120°	1599.9	22.0
90°-150°	2152.7	29.5
90°-180°	2179.0	29.9
0°-180°	7288.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	801	801	801	801	801	
5°	846	803	753	810	846	82
15°	966	765	764	769	966	276
25°	1118	692	836	694	1118	519
35°	1260	588	901	590	1260	793
45°	1397	472	971	470	1397	1083
55°	1524	345	1048	342	1524	1366
65°	1594	218	1087	218	1594	1578
75°	1570	100	1021	100	1570	1654
85°	1437	14	866	17	1437	1189
90°	1355	0	793	1	1355	743
95°	1282	0	736	1	1282	1034
105°	1148	0	638	1	1148	1214
115°	994	0	534	1	994	986
125°	809	0	423	1	809	726
135°	603	0	300	1	603	468
145°	382	0	183	1	382	243
155°	185	0	78	1	185	89
165°	29	0	4	2	29	12
175°	0	0	0	2	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	817.6	817.3	817.0	816.7	816.4	816.1	815.8	815.5	815.2	814.9	815.1
5°	846.1	845.1	844.1	843.1	842.1	841.2	840.2	839.2	838.2	837.2	836.7
7.5°	871.1	869.8	868.5	867.2	865.9	864.7	863.4	862.1	860.8	859.5	858.2
10°	897.8	896.0	894.2	892.5	890.7	888.9	887.1	885.4	883.6	881.8	879.9
12.5°	929.0	926.6	924.2	921.9	919.5	917.1	914.7	912.4	910.0	907.6	904.2
15°	965.6	962.6	959.6	956.7	953.7	950.7	947.7	944.8	941.8	938.8	933.6
17.5°	1005.7	1001.9	998.2	994.4	990.6	986.9	983.1	979.3	975.6	971.8	964.5
20°	1044.0	1039.4	1034.9	1030.3	1025.8	1021.2	1016.7	1012.1	1007.6	1003.0	993.8
22.5°	1081.5	1076.2	1071.0	1065.7	1060.5	1055.2	1050.0	1044.7	1039.5	1034.2	1023.5
25°	1118.0	1112.3	1106.5	1100.8	1095.0	1089.3	1083.5	1077.8	1072.0	1066.3	1054.0
27.5°	1153.7	1147.5	1141.2	1135.0	1128.7	1122.5	1116.2	1110.0	1103.7	1097.5	1083.5
30°	1188.5	1181.7	1174.8	1168.0	1161.2	1154.3	1147.5	1140.7	1133.8	1127.0	1111.4
32.5°	1225.0	1217.4	1209.8	1202.1	1194.5	1186.9	1179.3	1171.6	1164.0	1156.4	1139.2
35°	1259.8	1251.5	1243.2	1234.8	1226.5	1218.2	1209.9	1201.5	1193.2	1184.9	1166.0
37.5°	1294.6	1285.6	1276.6	1267.5	1258.5	1249.5	1240.5	1231.4	1222.4	1213.4	1192.9
40°	1329.3	1319.6	1309.9	1300.2	1290.5	1280.8	1271.1	1261.4	1251.7	1242.0	1219.8
42.5°	1363.2	1352.8	1342.4	1332.0	1321.6	1311.2	1300.8	1290.4	1280.0	1269.6	1245.5
45°	1397.1	1385.9	1374.7	1363.5	1352.3	1341.2	1330.0	1318.8	1307.6	1296.4	1270.4
47.5°	1431.0	1419.0	1407.0	1395.0	1383.0	1371.1	1359.1	1347.1	1335.1	1323.1	1295.2
50°	1464.0	1451.2	1438.4	1425.7	1412.9	1400.1	1387.3	1374.6	1361.8	1349.0	1318.9
52.5°	1495.2	1481.6	1468.0	1454.5	1440.9	1427.3	1413.7	1400.2	1386.6	1373.0	1340.6
55°	1523.7	1509.4	1495.2	1480.9	1466.6	1452.4	1438.1	1423.8	1409.6	1395.3	1360.9
57.5°	1548.7	1533.9	1519.2	1504.4	1489.6	1474.9	1460.1	1445.3	1430.6	1415.8	1379.4
60°	1569.2	1554.1	1539.1	1524.0	1509.0	1493.9	1478.9	1463.8	1448.8	1433.7	1395.5
62.5°	1584.3	1568.9	1553.6	1538.2	1522.9	1507.5	1492.2	1476.8	1461.5	1446.1	1406.3
65°	1594.1	1578.7	1563.2	1547.8	1532.3	1516.9	1501.4	1486.0	1470.5	1455.1	1414.0
67.5°	1597.7	1582.2	1566.8	1551.3	1535.9	1520.4	1505.0	1489.5	1474.1	1458.6	1416.4
70°	1595.9	1580.4	1565.0	1549.5	1534.1	1518.6	1503.2	1487.7	1472.3	1456.8	1413.8
72.5°	1587.0	1571.4	1555.9	1540.3	1524.8	1509.2	1493.7	1478.1	1462.6	1447.0	1403.7
75°	1570.1	1554.7	1539.4	1524.0	1508.7	1493.3	1478.0	1462.6	1447.3	1431.9	1388.4
77.5°	1544.2	1529.1	1514.1	1499.0	1484.0	1468.9	1453.9	1438.8	1423.8	1408.7	1365.3
80°	1513.0	1498.1	1483.3	1468.4	1453.6	1438.7	1423.9	1409.0	1394.2	1379.3	1336.3
82.5°	1476.5	1461.8	1447.2	1432.5	1417.8	1403.2	1388.5	1373.8	1359.2	1344.5	1302.1
85°	1437.2	1422.7	1408.3	1393.8	1379.4	1364.9	1350.5	1336.0	1321.6	1307.1	1265.4
87.5°	1395.3	1381.0	1366.8	1352.5	1338.2	1324.0	1309.7	1295.4	1281.2	1266.9	1226.2
90°	1355.2	1340.9	1326.7	1312.4	1298.1	1283.9	1269.6	1255.3	1241.1	1226.8	1187.2
92.5°	1318.6	1304.8	1291.1	1277.3	1263.5	1249.8	1236.0	1222.2	1208.5	1194.7	1156.2
95°	1282.1	1268.8	1255.5	1242.3	1229.0	1215.7	1202.4	1189.2	1175.9	1162.6	1125.2
97.5°	1247.3	1234.3	1221.3	1208.4	1195.4	1182.4	1169.4	1156.5	1143.5	1130.5	1093.9
100°	1213.4	1200.6	1187.8	1175.1	1162.3	1149.5	1136.7	1124.0	1111.2	1098.4	1062.6
102.5°	1181.3	1168.7	1156.1	1143.6	1131.0	1118.4	1105.8	1093.3	1080.7	1068.1	1033.0
105°	1147.5	1135.1	1122.7	1110.3	1097.9	1085.6	1073.2	1060.8	1048.4	1036.0	1001.6
107.5°	1113.6	1101.2	1088.8	1076.4	1064.0	1051.7	1039.3	1026.9	1014.5	1002.1	968.9
110°	1075.2	1063.0	1050.8	1038.7	1026.5	1014.3	1002.1	990.0	977.8	965.6	933.2



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1036.0	1024.5	1013.0	1001.5	990.0	978.6	967.1	955.6	944.1	932.6	900.7
115°	994.1	982.9	971.7	960.5	949.3	938.2	927.0	915.8	904.6	893.4	862.8
117.5°	950.4	939.5	928.6	917.7	906.8	896.0	885.1	874.2	863.3	852.4	822.9
120°	905.8	895.2	884.6	874.0	863.4	852.8	842.2	831.6	821.0	810.4	781.7
122.5°	859.5	849.3	839.1	828.9	818.7	808.5	798.3	788.1	777.9	767.7	740.4
125°	808.7	799.2	789.7	780.2	770.7	761.1	751.6	742.1	732.6	723.1	696.7
127.5°	757.0	748.1	739.2	730.2	721.3	712.4	703.5	694.5	685.6	676.7	651.3
130°	705.2	696.8	688.4	680.0	671.6	663.1	654.7	646.3	637.9	629.5	604.5
132.5°	658.0	649.4	640.8	632.1	623.5	614.9	606.3	597.6	589.0	580.4	557.1
135°	602.7	594.6	586.5	578.3	570.2	562.1	554.0	545.8	537.7	529.6	507.6
137.5°	546.5	538.7	530.9	523.0	515.2	507.4	499.6	491.7	483.9	476.1	456.0
140°	488.6	481.7	474.7	467.8	460.9	453.9	447.0	440.1	433.1	426.2	407.7
142.5°	433.3	427.2	421.0	414.9	408.7	402.6	396.4	390.3	384.1	378.0	361.1
145°	381.6	376.2	370.7	365.3	359.8	354.4	348.9	343.5	338.0	332.6	316.7
147.5°	330.8	325.8	320.9	315.9	311.0	306.0	301.1	296.1	291.2	286.2	271.9
150°	281.7	277.3	273.0	268.6	264.3	259.9	255.6	251.2	246.9	242.5	229.6
152.5°	233.6	229.3	225.1	220.8	216.6	212.3	208.1	203.8	199.6	195.3	184.3
155°	184.6	181.1	177.7	174.2	170.7	167.3	163.8	160.3	156.9	153.4	143.9
157.5°	140.0	137.1	134.2	131.4	128.5	125.6	122.7	119.9	117.0	114.1	106.1
160°	98.1	95.7	93.3	91.0	88.6	86.2	83.8	81.5	79.1	76.7	70.8
162.5°	58.0	56.4	54.8	53.2	51.6	50.1	48.5	46.9	45.3	43.7	40.0
165°	29.4	28.4	27.4	26.4	25.4	24.5	23.5	22.5	21.5	20.5	18.6
167.5°	9.8	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	5.5
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	815.3	815.5	815.7	815.9	816.1	816.3	816.5	816.7	815.2	813.7	812.2
5°	836.2	835.7	835.2	834.7	834.2	833.7	833.2	832.7	830.2	827.7	825.3
7.5°	856.9	855.6	854.3	853.1	851.8	850.5	849.2	847.9	844.1	840.4	836.6
10°	878.0	876.1	874.2	872.4	870.5	868.6	866.7	864.8	859.4	853.9	848.5
12.5°	900.9	897.5	894.1	890.8	887.4	884.0	880.7	877.3	870.5	863.6	856.8
15°	928.3	923.1	917.8	912.6	907.3	902.1	896.8	891.6	883.1	874.6	866.0
17.5°	957.1	949.8	942.5	935.1	927.8	920.5	913.1	905.8	895.3	884.8	874.3
20°	984.6	975.4	966.2	956.9	947.7	938.5	929.3	920.1	907.4	894.7	882.1
22.5°	1012.8	1002.1	991.4	980.7	970.0	959.3	948.6	937.9	922.5	907.2	891.8
25°	1041.7	1029.5	1017.2	1004.9	992.6	980.4	968.1	955.8	937.6	919.3	901.1
27.5°	1069.6	1055.6	1041.6	1027.7	1013.7	999.7	985.8	971.8	950.9	930.0	909.1
30°	1095.9	1080.3	1064.8	1049.2	1033.7	1018.1	1002.6	987.0	963.5	940.0	916.6
32.5°	1121.9	1104.7	1087.4	1070.2	1052.9	1035.7	1018.4	1001.2	975.1	948.9	922.8
35°	1147.1	1128.1	1109.2	1090.3	1071.4	1052.4	1033.5	1014.6	986.2	957.7	929.3
37.5°	1172.4	1151.9	1131.4	1110.9	1090.4	1069.9	1049.4	1028.9	998.1	967.3	936.5
40°	1197.6	1175.4	1153.2	1131.1	1108.9	1086.7	1064.5	1042.3	1009.2	976.1	943.0
42.5°	1221.5	1197.4	1173.3	1149.3	1125.2	1101.1	1077.1	1053.0	1017.7	982.5	947.2
45°	1244.5	1218.5	1192.6	1166.6	1140.7	1114.7	1088.8	1062.8	1025.3	987.9	950.4
47.5°	1267.2	1239.3	1211.4	1183.4	1155.5	1127.6	1099.6	1071.7	1032.2	992.6	953.1
50°	1288.8	1258.6	1228.5	1198.4	1168.3	1138.1	1108.0	1077.9	1036.4	994.9	953.4
52.5°	1308.2	1275.8	1243.4	1211.1	1178.7	1146.3	1113.9	1081.5	1038.2	994.9	951.6
55°	1326.5	1292.2	1257.8	1223.4	1189.0	1154.7	1120.3	1085.9	1040.6	995.4	950.1
57.5°	1343.1	1306.7	1270.4	1234.0	1197.7	1161.3	1125.0	1088.6	1041.3	994.1	946.8
60°	1357.2	1319.0	1280.7	1242.5	1204.2	1166.0	1127.7	1089.5	1040.6	991.6	942.7
62.5°	1366.5	1326.6	1286.8	1247.0	1207.2	1167.3	1127.5	1087.7	1037.2	986.7	936.1
65°	1372.9	1331.8	1290.7	1249.5	1208.4	1167.3	1126.2	1085.1	1032.9	980.7	928.5
67.5°	1374.2	1332.0	1289.8	1247.6	1205.4	1163.2	1121.0	1078.8	1025.2	971.6	918.0
70°	1370.8	1327.8	1284.8	1241.9	1198.9	1155.9	1112.9	1069.9	1015.1	960.3	905.6
72.5°	1360.4	1317.1	1273.8	1230.6	1187.3	1144.0	1100.7	1057.4	1001.7	946.0	890.4
75°	1344.9	1301.4	1257.9	1214.5	1171.0	1127.5	1084.0	1040.5	984.2	928.0	871.7
77.5°	1321.9	1278.5	1235.1	1191.8	1148.4	1105.0	1061.6	1018.2	961.7	905.3	848.8
80°	1293.3	1250.3	1207.3	1164.3	1121.3	1078.3	1035.3	992.3	936.2	880.2	824.1
82.5°	1259.7	1217.3	1174.9	1132.5	1090.1	1047.7	1005.3	962.9	907.4	851.9	796.5
85°	1223.7	1182.0	1140.3	1098.5	1056.8	1015.1	973.4	931.7	877.0	822.3	767.6
87.5°	1185.5	1144.8	1104.1	1063.3	1022.6	981.9	941.2	900.5	846.9	793.3	739.7
90°	1147.6	1107.9	1068.3	1028.7	989.1	949.4	909.8	870.2	817.7	765.2	712.7
92.5°	1117.6	1079.1	1040.6	1002.0	963.5	925.0	886.4	847.9	796.4	744.9	693.4
95°	1087.7	1050.3	1012.8	975.4	937.9	900.5	863.0	825.6	774.9	724.2	673.4
97.5°	1057.4	1020.8	984.3	947.7	911.2	874.6	838.1	801.5	751.8	702.1	652.3
100°	1026.9	991.1	955.4	919.6	883.9	848.1	812.4	776.6	727.9	679.1	630.4
102.5°	998.0	962.9	927.8	892.8	857.7	822.6	787.6	752.5	704.7	656.8	609.0
105°	967.2	932.9	898.5	864.1	829.7	795.4	761.0	726.6	679.6	632.7	585.7
107.5°	935.7	902.6	869.4	836.2	803.0	769.9	736.7	703.5	657.1	610.8	564.4
110°	900.8	868.4	836.0	803.6	771.2	738.8	706.4	674.0	628.9	583.9	538.8



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	868.8	836.9	805.0	773.1	741.2	709.3	677.4	645.5	601.5	557.5	513.5
115°	832.2	801.6	771.0	740.3	709.7	679.1	648.5	617.9	574.9	531.9	488.9
117.5°	793.4	763.8	734.3	704.8	675.3	645.7	616.2	586.7	544.7	502.7	460.7
120°	753.0	724.2	695.5	666.8	638.1	609.3	580.6	551.9	511.7	471.5	431.2
122.5°	713.0	685.7	658.3	631.0	603.6	576.3	548.9	521.6	482.7	443.7	404.8
125°	670.4	644.0	617.7	591.3	565.0	538.6	512.3	485.9	448.9	411.8	374.8
127.5°	626.0	600.6	575.3	549.9	524.6	499.2	473.9	448.5	413.6	378.7	343.9
130°	579.6	554.6	529.6	504.7	479.7	454.7	429.8	404.8	372.8	340.8	308.8
132.5°	533.8	510.6	487.3	464.0	440.7	417.5	394.2	370.9	340.8	310.7	280.6
135°	485.6	463.6	441.6	419.7	397.7	375.7	353.7	331.7	304.1	276.4	248.8
137.5°	435.9	415.8	395.7	375.5	355.4	335.3	315.2	295.1	269.7	244.4	219.0
140°	389.1	370.6	352.1	333.5	315.0	296.5	277.9	259.4	236.2	213.0	189.9
142.5°	344.1	327.2	310.3	293.3	276.4	259.5	242.5	225.6	204.3	183.0	161.7
145°	300.9	285.0	269.2	253.3	237.5	221.6	205.8	189.9	171.4	152.9	134.3
147.5°	257.7	243.4	229.1	214.9	200.6	186.3	172.1	157.8	142.0	126.1	110.3
150°	216.7	203.9	191.0	178.1	165.2	152.4	139.5	126.6	113.7	100.8	88.0
152.5°	173.3	162.3	151.3	140.3	129.3	118.3	107.3	96.3	86.3	76.3	66.3
155°	134.4	124.9	115.4	105.8	96.3	86.8	77.3	67.8	60.6	53.3	46.1
157.5°	98.1	90.0	82.0	74.0	66.0	57.9	49.9	41.9	37.2	32.6	27.9
160°	64.8	58.9	52.9	47.0	41.0	35.1	29.1	23.2	20.6	18.0	15.5
162.5°	36.4	32.7	29.0	25.4	21.7	18.0	14.4	10.7	9.5	8.3	7.1
165°	16.7	14.9	13.0	11.1	9.2	7.4	5.5	3.6	3.2	2.8	2.4
167.5°	4.8	4.1	3.4	2.8	2.1	1.4	0.7	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	810.7	809.3	807.8	806.3	804.8	803.3	803.7	804.1	804.5	804.9	805.3
5°	822.8	820.3	817.8	815.4	812.9	810.4	809.6	808.8	808.0	807.2	806.5
7.5°	832.8	829.1	825.3	821.5	817.8	814.0	812.2	810.4	808.7	806.9	805.1
10°	843.0	837.6	832.1	826.7	821.2	815.8	812.9	810.0	807.2	804.3	801.4
12.5°	850.0	843.1	836.3	829.5	822.6	815.8	811.5	807.3	803.0	798.8	794.5
15°	857.5	849.0	840.5	831.9	823.4	814.9	809.4	803.8	798.3	792.7	787.2
17.5°	863.8	853.3	842.8	832.3	821.8	811.3	804.6	797.8	791.1	784.4	777.6
20°	869.4	856.7	844.0	831.4	818.7	806.0	797.9	789.8	781.6	773.5	765.4
22.5°	876.5	861.1	845.8	830.4	815.1	799.7	790.1	780.5	770.9	761.3	751.7
25°	882.9	864.6	846.4	828.2	809.9	791.7	780.6	769.5	758.4	747.3	736.3
27.5°	888.2	867.3	846.4	825.5	804.6	783.7	770.8	757.9	745.1	732.2	719.3
30°	893.1	869.6	846.1	822.7	799.2	775.7	761.0	746.4	731.7	717.0	702.4
32.5°	896.6	870.5	844.3	818.2	792.0	765.9	749.4	732.8	716.3	699.7	683.2
35°	900.9	872.4	844.0	815.6	787.1	758.7	739.8	720.9	701.9	683.0	664.1
37.5°	905.7	874.8	844.0	813.2	782.4	751.6	730.6	709.6	688.6	667.6	646.6
40°	909.9	876.9	843.8	810.7	777.6	744.5	721.0	697.5	674.1	650.6	627.1
42.5°	911.9	876.7	841.4	806.1	770.9	735.6	709.7	683.9	658.0	632.2	606.3
45°	913.0	875.5	838.1	800.6	763.2	725.7	697.5	669.2	641.0	612.8	584.5
47.5°	913.6	874.0	834.5	795.0	755.4	715.9	685.3	654.7	624.1	593.5	562.8
50°	911.9	870.3	828.8	787.3	745.8	704.3	671.5	638.7	605.9	573.1	540.4
52.5°	908.3	865.1	821.8	778.5	735.2	691.9	656.8	621.7	586.7	551.6	516.5
55°	904.8	859.6	814.3	769.0	723.8	678.5	641.4	604.4	567.3	530.3	493.2
57.5°	899.6	852.3	805.1	757.8	710.6	663.3	624.4	585.4	546.5	507.6	468.6
60°	893.8	844.8	795.9	747.0	698.0	649.1	608.2	567.3	526.3	485.4	444.5
62.5°	885.6	835.1	784.6	734.0	683.5	633.0	590.4	547.8	505.2	462.6	420.0
65°	876.3	824.0	771.8	719.6	667.4	615.2	571.0	526.8	482.6	438.4	394.3
67.5°	864.4	810.9	757.3	703.7	650.1	596.5	550.8	505.1	459.5	413.8	368.1
70°	850.8	796.0	741.2	686.5	631.7	576.9	530.1	483.4	436.6	389.8	343.1
72.5°	834.7	779.0	723.3	667.7	612.0	556.3	508.7	461.0	413.4	365.7	318.1
75°	815.4	759.2	702.9	646.6	590.4	534.1	485.9	437.6	389.4	341.1	292.9
77.5°	792.3	735.9	679.4	622.9	566.5	510.0	461.6	413.1	364.7	316.2	267.8
80°	768.0	712.0	655.9	599.8	543.8	487.7	439.2	390.6	342.1	293.5	245.0
82.5°	741.0	685.5	630.0	574.6	519.1	463.6	415.5	367.3	319.2	271.0	222.9
85°	712.9	658.3	603.6	548.9	494.2	439.5	392.3	345.0	297.8	250.5	203.3
87.5°	686.1	632.6	579.0	525.4	471.8	418.2	371.9	325.7	279.4	233.1	186.9
90°	660.2	607.6	555.1	502.6	450.1	397.6	353.4	309.2	265.1	220.9	176.7
92.5°	641.9	590.3	538.8	487.3	435.8	384.3	341.6	298.9	256.2	213.5	170.8
95°	622.7	572.0	521.3	470.5	419.8	369.1	328.1	287.1	246.1	205.1	164.0
97.5°	602.6	552.9	503.2	453.4	403.7	354.0	314.7	275.3	236.0	196.7	157.3
100°	581.6	532.9	484.1	435.4	386.6	337.9	300.4	262.8	225.3	187.7	150.2
102.5°	561.1	513.3	465.4	417.6	369.7	321.9	286.1	250.4	214.6	178.8	143.1
105°	538.8	491.8	444.9	397.9	351.0	304.0	270.2	236.4	202.7	168.9	135.1
107.5°	518.0	471.7	425.3	378.9	332.6	286.2	254.4	222.6	190.8	159.0	127.2
110°	493.7	448.7	403.6	358.5	313.5	268.4	238.6	208.8	178.9	149.1	119.3



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	469.5	425.6	381.6	337.6	293.6	249.6	221.9	194.1	166.4	138.7	110.9
115°	445.9	402.9	359.9	316.9	273.9	230.9	205.2	179.6	153.9	128.3	102.6
117.5°	418.7	376.6	334.6	292.6	250.6	208.6	185.4	162.2	139.1	115.9	92.7
120°	391.0	350.8	310.6	270.3	230.1	189.9	168.8	147.7	126.6	105.5	84.4
122.5°	365.9	326.9	288.0	249.1	210.1	171.2	152.2	133.2	114.1	95.1	76.1
125°	337.7	300.7	263.6	226.6	189.5	152.5	135.6	118.6	101.7	84.7	67.8
127.5°	309.0	274.1	239.2	204.4	169.5	134.6	119.6	104.7	89.7	74.8	59.8
130°	276.8	244.8	212.8	180.8	148.8	116.8	103.8	90.8	77.9	64.9	51.9
132.5°	250.5	220.3	190.2	160.1	130.0	99.9	88.8	77.7	66.6	55.5	44.4
135°	221.1	193.5	165.8	138.2	110.5	82.9	73.7	64.5	55.3	46.1	36.8
137.5°	193.7	168.3	143.0	117.6	92.3	66.9	59.5	52.0	44.6	37.2	29.7
140°	166.7	143.5	120.3	97.2	74.0	50.8	45.2	39.5	33.9	28.2	22.6
142.5°	140.4	119.1	97.8	76.5	55.2	33.9	30.1	26.4	22.6	18.8	15.1
145°	115.8	97.3	78.8	60.2	41.7	23.2	20.6	18.0	15.5	12.9	10.3
147.5°	94.4	78.6	62.7	46.9	31.0	15.2	13.5	11.8	10.1	8.4	6.8
150°	75.1	62.2	49.3	36.5	23.6	10.7	9.5	8.3	7.1	5.9	4.8
152.5°	56.3	46.2	36.2	26.2	16.2	6.2	5.5	4.8	4.1	3.4	2.8
155°	38.9	31.6	24.4	17.2	9.9	2.7	2.4	2.1	1.8	1.5	1.2
157.5°	23.3	18.6	14.0	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
160°	12.9	10.3	7.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	5.9	4.8	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	805.7	806.1	806.5	806.9	804.9	802.9	800.9	798.9	797.0	795.0	793.0
5°	805.7	804.9	804.1	803.3	800.4	797.6	794.7	791.8	789.0	786.1	783.2
7.5°	803.3	801.6	799.8	798.0	794.3	790.7	787.0	783.3	779.7	776.0	772.3
10°	798.5	795.7	792.8	789.9	785.6	781.4	777.1	772.9	768.6	764.4	760.1
12.5°	790.3	786.0	781.8	777.5	773.0	768.6	764.1	759.6	755.2	750.7	746.2
15°	781.6	776.1	770.5	765.0	760.1	755.3	750.4	745.6	740.7	735.9	731.0
17.5°	770.9	764.2	757.4	750.7	745.6	740.6	735.5	730.5	725.4	720.4	715.3
20°	757.3	749.1	741.0	732.9	728.1	723.4	718.6	713.9	709.1	704.4	699.6
22.5°	742.1	732.5	722.9	713.3	708.8	704.4	699.9	695.4	691.0	686.5	682.0
25°	725.2	714.1	703.0	691.9	688.0	684.2	680.3	676.4	672.6	668.7	664.8
27.5°	706.4	693.6	680.7	667.8	664.9	662.0	659.2	656.3	653.4	650.5	647.7
30°	687.7	673.0	658.4	643.7	642.0	640.3	638.7	637.0	635.3	633.6	632.0
32.5°	666.6	650.1	633.5	617.0	617.0	617.0	617.0	617.0	617.0	617.0	617.0
35°	645.2	626.2	607.3	588.4	590.3	592.2	594.1	596.0	597.8	599.7	601.6
37.5°	625.6	604.6	583.6	562.6	566.2	569.7	573.3	576.9	580.4	584.0	587.6
40°	603.6	580.2	556.7	533.2	538.5	543.9	549.2	554.6	559.9	565.3	570.6
42.5°	580.5	554.6	528.8	502.9	510.1	517.3	524.6	531.8	539.0	546.2	553.5
45°	556.3	528.1	499.8	471.6	480.7	489.8	499.0	508.1	517.2	526.3	535.5
47.5°	532.2	501.6	471.0	440.4	451.4	462.4	473.4	484.4	495.4	506.4	517.4
50°	507.6	474.8	442.0	409.2	422.0	434.8	447.5	460.3	473.1	485.9	498.6
52.5°	481.4	446.4	411.3	376.2	390.9	405.5	420.2	434.9	449.5	464.2	478.9
55°	456.2	419.1	382.1	345.0	361.4	377.7	394.1	410.4	426.8	443.1	459.5
57.5°	429.7	390.8	351.8	312.9	331.0	349.2	367.3	385.4	403.6	421.7	439.8
60°	403.6	362.6	321.7	280.8	300.4	320.0	339.7	359.3	378.9	398.5	418.2
62.5°	377.4	334.8	292.2	249.6	270.7	291.8	312.9	334.0	355.1	376.2	397.3
65°	350.1	305.9	261.7	217.5	240.1	262.7	285.3	307.9	330.4	353.0	375.6
67.5°	322.4	276.8	231.1	185.4	209.4	233.4	257.3	281.3	305.3	329.3	353.2
70°	296.3	249.5	202.8	156.0	181.0	205.9	230.9	255.9	280.8	305.8	330.8
72.5°	270.4	222.8	175.1	127.5	153.3	179.0	204.8	230.5	256.3	282.0	307.8
75°	244.6	196.4	148.1	99.9	126.3	152.8	179.2	205.7	232.1	258.6	285.0
77.5°	219.3	170.9	122.4	74.0	100.6	127.3	153.9	180.6	207.2	233.9	260.5
80°	196.4	147.9	99.3	50.8	77.6	104.5	131.3	158.2	185.0	211.9	238.7
82.5°	174.7	126.6	78.4	30.3	56.9	83.6	110.2	136.9	163.5	190.2	216.8
85°	156.0	108.8	61.5	14.3	40.5	66.8	93.0	119.3	145.5	171.8	198.0
87.5°	140.6	94.3	48.1	1.8	27.5	53.1	78.8	104.4	130.1	155.7	181.4
90°	132.5	88.4	44.2	0.0	24.4	48.7	73.1	97.5	121.8	146.2	170.6
92.5°	128.1	85.4	42.7	0.0	23.0	46.0	68.9	91.9	114.9	137.9	160.8
95°	123.0	82.0	41.0	0.0	21.8	43.6	65.4	87.2	108.9	130.7	152.5
97.5°	118.0	78.7	39.3	0.0	20.5	41.0	61.5	82.0	102.6	123.1	143.6
100°	112.6	75.1	37.5	0.0	19.3	38.6	58.0	77.3	96.6	115.9	135.3
102.5°	107.3	71.5	35.8	0.0	18.1	36.3	54.4	72.5	90.7	108.8	126.9
105°	101.3	67.6	33.8	0.0	16.8	33.7	50.5	67.4	84.2	101.1	117.9
107.5°	95.4	63.6	31.8	0.0	15.6	31.1	46.7	62.2	77.8	93.3	108.9
110°	89.5	59.6	29.8	0.0	14.4	28.7	43.1	57.5	71.8	86.2	100.6



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	83.2	55.5	27.7	0.0	13.1	26.2	39.2	52.3	65.4	78.5	91.5
115°	77.0	51.3	25.7	0.0	11.8	23.6	35.4	47.2	58.9	70.7	82.5
117.5°	69.5	46.4	23.2	0.0	10.5	21.0	31.5	42.0	52.5	63.0	73.5
120°	63.3	42.2	21.1	0.0	9.2	18.4	27.6	36.8	46.1	55.3	64.5
122.5°	57.1	38.0	19.0	0.0	8.1	16.2	24.4	32.5	40.6	48.7	56.9
125°	50.8	33.9	16.9	0.0	6.8	13.7	20.5	27.3	34.2	41.0	47.8
127.5°	44.9	29.9	15.0	0.0	5.5	11.1	16.6	22.2	27.7	33.3	38.8
130°	38.9	26.0	13.0	0.0	4.4	8.7	13.1	17.4	21.8	26.1	30.5
132.5°	33.3	22.2	11.1	0.0	3.3	6.5	9.8	13.1	16.3	19.6	22.9
135°	27.6	18.4	9.2	0.0	2.3	4.6	6.8	9.1	11.4	13.7	15.9
137.5°	22.3	14.9	7.4	0.0	1.5	3.0	4.5	6.0	7.4	8.9	10.4
140°	16.9	11.3	5.6	0.0	0.8	1.6	2.4	3.2	3.9	4.7	5.5
142.5°	11.3	7.5	3.8	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8
145°	7.7	5.2	2.6	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
147.5°	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	791.0	789.0	788.4	787.8	787.2	786.6	786.1	785.5	784.9	784.3	783.7
5°	780.4	777.5	776.4	775.3	774.2	773.1	772.1	771.0	769.9	768.8	767.7
7.5°	768.7	765.0	763.7	762.4	761.1	759.8	758.6	757.3	756.0	754.7	753.4
10°	755.9	751.6	750.4	749.2	748.0	746.8	745.7	744.5	743.3	742.1	740.9
12.5°	741.8	737.3	736.6	735.9	735.2	734.5	733.9	733.2	732.5	731.8	731.1
15°	726.2	721.3	721.6	721.9	722.2	722.5	722.8	723.1	723.4	723.7	724.0
17.5°	710.3	705.2	707.3	709.4	711.5	713.6	715.6	717.7	719.8	721.9	724.0
20°	694.9	690.1	694.6	699.0	703.5	707.9	712.4	716.8	721.3	725.7	730.2
22.5°	677.6	673.1	680.1	687.2	694.2	701.2	708.3	715.3	722.3	729.4	736.4
25°	661.0	657.1	666.6	676.1	685.6	695.1	704.7	714.2	723.7	733.2	742.7
27.5°	644.8	641.9	653.5	665.1	676.7	688.3	699.9	711.5	723.1	734.7	746.3
30°	630.3	628.6	642.1	655.5	669.0	682.5	695.9	709.4	722.9	736.3	749.8
32.5°	617.0	617.0	632.1	647.1	662.2	677.2	692.3	707.3	722.4	737.4	752.5
35°	603.5	605.4	621.8	638.3	654.7	671.2	687.6	704.1	720.5	737.0	753.4
37.5°	591.1	594.7	612.4	630.2	647.9	665.6	683.4	701.1	718.8	736.6	754.3
40°	576.0	581.3	600.6	619.9	639.3	658.6	677.9	697.2	716.6	735.9	755.2
42.5°	560.7	567.9	588.6	609.3	630.0	650.7	671.5	692.2	712.9	733.6	754.3
45°	544.6	553.7	575.9	598.1	620.3	642.5	664.6	686.8	709.0	731.2	753.4
47.5°	528.4	539.4	563.0	586.6	610.1	633.7	657.3	680.9	704.4	728.0	751.6
50°	511.4	524.2	549.3	574.3	599.4	624.5	649.5	674.6	699.7	724.7	749.8
52.5°	493.5	508.2	534.6	560.9	587.3	613.6	640.0	666.3	692.7	719.0	745.4
55°	475.8	492.2	519.9	547.7	575.4	603.1	630.9	658.6	686.3	714.1	741.8
57.5°	458.0	476.1	505.3	534.5	563.8	593.0	622.2	651.4	680.7	709.9	739.1
60°	437.8	457.4	488.2	519.0	549.8	580.6	611.5	642.3	673.1	703.9	734.7
62.5°	418.4	439.5	471.8	504.1	536.4	568.7	601.0	633.3	665.6	697.9	730.2
65°	398.2	420.8	454.5	488.2	521.9	555.6	589.2	622.9	656.6	690.3	724.0
67.5°	377.2	401.2	436.2	471.1	506.1	541.1	576.0	611.0	646.0	680.9	715.9
70°	355.7	380.7	416.7	452.6	488.6	524.5	560.5	596.4	632.4	668.3	704.3
72.5°	333.5	359.3	395.7	432.0	468.4	504.7	541.1	577.4	613.8	650.1	686.5
75°	311.5	337.9	374.2	410.4	446.7	482.9	519.2	555.4	591.7	627.9	664.2
77.5°	287.2	313.8	349.8	385.7	421.7	457.7	493.6	529.6	565.6	601.5	637.5
80°	265.6	292.4	327.5	362.6	397.6	432.7	467.8	502.9	537.9	573.0	608.1
82.5°	243.5	270.1	304.2	338.3	372.4	406.5	440.5	474.6	508.7	542.8	576.9
85°	224.3	250.5	283.5	316.5	349.5	382.5	415.4	448.4	481.4	514.4	547.4
87.5°	207.0	232.7	264.8	296.9	329.0	361.1	393.2	425.3	457.4	489.5	521.6
90°	194.9	219.3	250.3	281.3	312.3	343.3	374.4	405.4	436.4	467.4	498.4
92.5°	183.8	206.8	237.2	267.6	298.1	328.5	358.9	389.3	419.8	450.2	480.6
95°	174.3	196.1	225.7	255.3	285.0	314.6	344.2	373.8	403.5	433.1	462.7
97.5°	164.1	184.6	213.6	242.6	271.7	300.7	329.7	358.7	387.8	416.8	445.8
100°	154.6	173.9	202.2	230.5	258.9	287.2	315.5	343.8	372.2	400.5	428.8
102.5°	145.1	163.2	190.8	218.5	246.1	273.7	301.4	329.0	356.6	384.3	411.9
105°	134.8	151.6	178.7	205.9	233.0	260.2	287.3	314.5	341.6	368.8	395.9
107.5°	124.4	140.0	166.3	192.7	219.0	245.4	271.7	298.1	324.4	350.8	377.1
110°	114.9	129.3	154.7	180.0	205.4	230.7	256.1	281.4	306.8	332.1	357.5



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	104.6	117.7	142.3	166.8	191.4	216.0	240.5	265.1	289.7	314.2	338.8
115°	94.3	106.1	129.8	153.5	177.1	200.8	224.5	248.2	271.8	295.5	319.2
117.5°	84.0	94.5	117.3	140.1	162.9	185.7	208.4	231.2	254.0	276.8	299.6
120°	73.7	82.9	104.7	126.5	148.3	170.1	191.9	213.7	235.5	257.3	279.1
122.5°	65.0	73.1	93.7	114.3	134.9	155.5	176.2	196.8	217.4	238.0	258.6
125°	54.7	61.5	81.0	100.5	120.1	139.6	159.1	178.6	198.2	217.7	237.2
127.5°	44.4	49.9	67.8	85.8	103.7	121.6	139.6	157.5	175.4	193.4	211.3
130°	34.8	39.2	55.5	71.9	88.2	104.6	120.9	137.3	153.6	170.0	186.3
132.5°	26.1	29.4	44.0	58.5	73.1	87.7	102.2	116.8	131.4	145.9	160.5
135°	18.2	20.5	33.5	46.5	59.4	72.4	85.4	98.4	111.3	124.3	137.3
137.5°	11.9	13.4	24.7	36.0	47.3	58.6	69.8	81.1	92.4	103.7	115.0
140°	6.3	7.1	16.9	26.7	36.5	46.3	56.2	66.0	75.8	85.6	95.4
142.5°	3.2	3.6	11.7	19.8	28.0	36.1	44.2	52.3	60.5	68.6	76.7
145°	0.8	0.9	7.4	14.0	20.5	27.0	33.6	40.1	46.6	53.2	59.7
147.5°	0.0	0.0	5.0	9.9	14.9	19.8	24.8	29.7	34.7	39.6	44.6
150°	0.0	0.0	3.5	6.9	10.4	13.9	17.3	20.8	24.3	27.7	31.2
152.5°	0.0	0.0	2.1	4.2	6.2	8.3	10.4	12.5	14.5	16.6	18.7
155°	0.0	0.0	1.1	2.2	3.3	4.4	5.4	6.5	7.6	8.7	9.8
157.5°	0.0	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	782.8	781.9	781.0	780.1	779.3	778.4	777.5	776.6	775.7	774.8	773.9
5°	766.7	765.7	764.7	763.7	762.7	761.7	760.7	759.7	758.7	758.1	757.5
7.5°	752.5	751.6	750.7	749.8	749.0	748.1	747.2	746.3	745.4	745.1	744.8
10°	740.8	740.7	740.6	740.5	740.4	740.3	740.2	740.1	740.0	739.8	739.6
12.5°	732.0	732.9	733.8	734.7	735.5	736.4	737.3	738.2	739.1	739.7	740.3
15°	726.9	729.7	732.6	735.5	738.3	741.2	744.1	746.9	749.8	751.4	753.0
17.5°	728.8	733.5	738.3	743.0	747.8	752.5	757.3	762.0	766.8	768.7	770.6
20°	735.9	741.7	747.4	753.2	758.9	764.7	770.4	776.2	781.9	784.2	786.5
22.5°	743.1	749.9	756.6	763.4	770.1	776.9	783.6	790.4	797.1	799.6	802.1
25°	750.2	757.7	765.3	772.8	780.3	787.8	795.4	802.9	810.4	813.3	816.2
27.5°	754.9	763.5	772.1	780.7	789.4	798.0	806.6	815.2	823.8	826.9	830.0
30°	759.3	768.8	778.3	787.8	797.4	806.9	816.4	825.9	835.4	839.1	842.7
32.5°	763.0	773.5	784.0	794.5	805.0	815.5	826.0	836.5	847.0	851.2	855.3
35°	765.1	776.8	788.5	800.2	811.8	823.5	835.2	846.9	858.6	863.4	868.1
37.5°	767.2	780.1	792.9	805.8	818.7	831.6	844.4	857.3	870.2	875.6	881.1
40°	769.3	783.3	797.4	811.5	825.5	839.6	853.7	867.7	881.8	887.8	893.9
42.5°	769.7	785.0	800.4	815.7	831.1	846.4	861.8	877.1	892.5	899.2	906.0
45°	770.2	787.1	803.9	820.8	837.6	854.5	871.3	888.2	905.0	912.3	919.6
47.5°	770.1	788.6	807.2	825.7	844.2	862.7	881.3	899.8	918.3	926.3	934.3
50°	769.9	790.0	810.1	830.2	850.4	870.5	890.6	910.7	930.8	939.7	948.6
52.5°	767.3	789.2	811.1	833.0	854.8	876.7	898.6	920.5	942.4	952.1	961.8
55°	765.6	789.4	813.1	836.9	860.7	884.5	908.2	932.0	955.8	966.0	976.2
57.5°	764.4	789.6	814.9	840.2	865.4	890.7	916.0	941.2	966.5	977.4	988.3
60°	761.4	788.2	814.9	841.7	868.4	895.2	921.9	948.7	975.4	986.6	997.8
62.5°	758.1	786.1	814.0	841.9	869.9	897.8	925.7	953.7	981.6	992.9	1004.2
65°	752.9	781.8	810.8	839.7	868.6	897.5	926.5	955.4	984.3	995.7	1007.1
67.5°	745.3	774.7	804.2	833.6	863.0	892.4	921.9	951.3	980.7	992.1	1003.5
70°	734.0	763.7	793.5	823.2	852.9	882.6	912.4	942.1	971.8	983.0	994.2
72.5°	716.2	745.9	775.7	805.4	835.1	864.8	894.6	924.3	954.0	964.8	975.6
75°	693.4	722.6	751.9	781.1	810.3	839.5	868.8	898.0	927.2	937.6	948.0
77.5°	665.8	694.2	722.5	750.8	779.2	807.5	835.8	864.2	892.5	902.7	912.9
80°	635.5	663.0	690.4	717.8	745.3	772.7	800.1	827.6	855.0	864.9	874.8
82.5°	603.3	629.8	656.2	682.7	709.1	735.6	762.0	788.5	814.9	824.6	834.3
85°	573.4	599.3	625.3	651.2	677.2	703.1	729.1	755.0	781.0	790.4	799.8
87.5°	546.1	570.5	595.0	619.5	643.9	668.4	692.9	717.3	741.8	751.0	760.2
90°	522.4	546.4	570.3	594.3	618.3	642.3	666.2	690.2	714.2	722.9	731.6
92.5°	503.8	527.0	550.1	573.3	596.5	619.7	642.8	666.0	689.2	697.6	706.0
95°	485.0	507.3	529.6	551.9	574.1	596.4	618.7	641.0	663.3	671.3	679.4
97.5°	467.4	489.0	510.6	532.2	553.8	575.4	597.0	618.6	640.2	647.8	655.4
100°	449.9	471.0	492.1	513.2	534.4	555.5	576.6	597.7	618.8	626.2	633.6
102.5°	432.5	453.1	473.7	494.3	515.0	535.6	556.2	576.8	597.4	604.8	612.2
105°	415.8	435.7	455.6	475.5	495.5	515.4	535.3	555.2	575.1	582.1	589.2
107.5°	396.5	415.9	435.4	454.8	474.2	493.6	513.1	532.5	551.9	558.7	565.6
110°	376.4	395.3	414.3	433.2	452.1	471.0	490.0	508.9	527.8	534.7	541.7



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	357.0	375.3	393.5	411.7	430.0	448.2	466.4	484.7	502.9	509.4	516.0
115°	336.8	354.5	372.1	389.7	407.4	425.0	442.6	460.3	477.9	484.1	490.4
117.5°	316.5	333.5	350.4	367.3	384.3	401.2	418.1	435.1	452.0	458.1	464.3
120°	295.4	311.8	328.1	344.5	360.8	377.2	393.5	409.9	426.2	432.0	437.9
122.5°	274.2	289.9	305.5	321.2	336.8	352.5	368.1	383.8	399.4	405.1	410.9
125°	252.3	267.3	282.4	297.4	312.5	327.5	342.6	357.6	372.7	378.2	383.8
127.5°	226.2	241.0	255.9	270.7	285.6	300.4	315.3	330.1	345.0	350.4	355.7
130°	200.8	215.2	229.7	244.2	258.6	273.1	287.6	302.0	316.5	321.7	326.8
132.5°	174.6	188.6	202.7	216.8	230.8	244.9	259.0	273.0	287.1	292.1	297.0
135°	150.9	164.4	178.0	191.6	205.1	218.7	232.3	245.8	259.4	264.0	268.5
137.5°	127.7	140.4	153.0	165.7	178.4	191.1	203.7	216.4	229.1	233.7	238.2
140°	106.6	117.8	129.0	140.2	151.3	162.5	173.7	184.9	196.1	201.3	206.4
142.5°	86.6	96.5	106.4	116.3	126.2	136.1	146.0	155.9	165.8	170.9	175.9
145°	68.2	76.7	85.3	93.8	102.3	110.8	119.4	127.9	136.4	141.6	146.7
147.5°	51.8	59.1	66.3	73.5	80.8	88.0	95.2	102.5	109.7	114.8	120.0
150°	37.2	43.3	49.3	55.4	61.4	67.5	73.5	79.6	85.6	90.4	95.1
152.5°	23.7	28.6	33.6	38.5	43.5	48.4	53.4	58.3	63.3	67.7	72.0
155°	13.5	17.1	20.8	24.5	28.1	31.8	35.5	39.1	42.8	46.7	50.5
157.5°	5.2	7.7	10.1	12.6	15.1	17.6	20.0	22.5	25.0	28.3	31.5
160°	1.3	2.6	3.9	5.2	6.4	7.7	9.0	10.3	11.6	14.0	16.4
162.5°	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	3.3	4.8
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	773.0	772.1	771.3	770.4	769.5	768.6	767.7	768.5	769.3	770.1	770.9
5°	756.9	756.3	755.8	755.2	754.6	754.0	753.4	753.9	754.4	754.9	755.4
7.5°	744.5	744.2	743.9	743.6	743.3	743.0	742.7	743.0	743.3	743.6	743.9
10°	739.4	739.2	739.0	738.8	738.6	738.4	738.2	738.1	738.0	737.9	737.8
12.5°	740.9	741.5	742.1	742.7	743.3	743.9	744.5	743.5	742.5	741.5	740.5
15°	754.6	756.2	757.7	759.3	760.9	762.5	764.1	762.4	760.7	759.0	757.3
17.5°	772.4	774.3	776.2	778.1	779.9	781.8	783.7	781.9	780.1	778.4	776.6
20°	788.7	791.0	793.3	795.6	797.8	800.1	802.4	799.9	797.4	795.0	792.5
22.5°	804.5	807.0	809.5	812.0	814.4	816.9	819.4	816.5	813.6	810.8	807.9
25°	819.0	821.9	824.8	827.7	830.5	833.4	836.3	833.1	830.0	826.8	823.6
27.5°	833.0	836.1	839.2	842.3	845.3	848.4	851.5	848.1	844.7	841.4	838.0
30°	846.4	850.1	853.7	857.4	861.1	864.7	868.4	864.5	860.7	856.8	852.9
32.5°	859.5	863.6	867.8	871.9	876.1	880.2	884.4	880.0	875.7	871.3	867.0
35°	872.9	877.6	882.4	887.1	891.9	896.6	901.4	896.5	891.7	886.8	882.0
37.5°	886.5	892.0	897.4	902.9	908.3	913.8	919.2	913.9	908.5	903.2	897.8
40°	899.9	906.0	912.0	918.1	924.1	930.2	936.2	930.4	924.5	918.7	912.8
42.5°	912.7	919.4	926.2	932.9	939.6	946.4	953.1	946.8	940.4	934.1	927.7
45°	927.0	934.3	941.6	948.9	956.3	963.6	970.9	964.1	957.2	950.4	943.6
47.5°	942.4	950.4	958.4	966.4	974.5	982.5	990.5	983.1	975.7	968.2	960.8
50°	957.6	966.5	975.4	984.3	993.3	1002.2	1011.1	1003.0	994.8	986.7	978.6
52.5°	971.5	981.2	991.0	1000.7	1010.4	1020.1	1029.8	1021.1	1012.4	1003.6	994.9
55°	986.4	996.6	1006.8	1017.0	1027.2	1037.4	1047.6	1038.4	1029.2	1020.0	1010.8
57.5°	999.2	1010.1	1020.9	1031.8	1042.7	1053.6	1064.5	1054.8	1045.1	1035.4	1025.7
60°	1009.0	1020.2	1031.3	1042.5	1053.7	1064.9	1076.1	1066.3	1056.5	1046.7	1036.9
62.5°	1015.5	1026.8	1038.1	1049.4	1060.7	1072.0	1083.3	1073.4	1063.5	1053.6	1043.7
65°	1018.5	1029.9	1041.2	1052.6	1064.0	1075.4	1086.8	1076.7	1066.6	1056.5	1046.4
67.5°	1014.9	1026.3	1037.7	1049.1	1060.5	1071.9	1083.3	1073.4	1063.5	1053.6	1043.7
70°	1005.4	1016.6	1027.8	1039.0	1050.2	1061.4	1072.6	1062.6	1052.6	1042.6	1032.6
72.5°	986.4	997.2	1008.0	1018.8	1029.6	1040.4	1051.2	1041.5	1031.8	1022.1	1012.4
75°	958.4	968.8	979.3	989.7	1000.1	1010.5	1020.9	1011.5	1002.1	992.7	983.3
77.5°	923.1	933.3	943.5	953.7	963.9	974.1	984.3	975.0	965.7	956.4	947.1
80°	884.7	894.6	904.6	914.5	924.4	934.3	944.2	935.1	926.0	916.9	907.8
82.5°	844.0	853.7	863.5	873.2	882.9	892.6	902.3	893.9	885.5	877.0	868.6
85°	809.2	818.6	828.1	837.5	846.9	856.3	865.7	857.0	848.3	839.6	830.9
87.5°	769.4	778.6	787.9	797.1	806.3	815.5	824.7	816.4	808.1	799.7	791.4
90°	740.3	749.0	757.8	766.5	775.2	783.9	792.6	784.5	776.4	768.2	760.1
92.5°	714.5	722.9	731.3	739.7	748.2	756.6	765.0	757.1	749.1	741.2	733.3
95°	687.4	695.4	703.5	711.5	719.5	727.6	735.6	728.2	720.7	713.3	705.9
97.5°	663.1	670.7	678.3	685.9	693.6	701.2	708.8	701.8	694.7	687.7	680.7
100°	641.1	648.5	655.9	663.3	670.8	678.2	685.6	678.4	671.1	663.9	656.7
102.5°	619.7	627.1	634.5	641.9	649.4	656.8	664.2	656.9	649.6	642.2	634.9
105°	596.2	603.2	610.3	617.3	624.3	631.4	638.4	631.5	624.5	617.6	610.7
107.5°	572.4	579.2	586.1	592.9	599.7	606.6	613.4	606.7	599.9	593.2	586.5
110°	548.6	555.5	562.5	569.4	576.3	583.3	590.2	583.4	576.5	569.7	562.9



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	522.5	529.0	535.6	542.1	548.6	555.2	561.7	555.3	548.8	542.4	535.9
115°	496.6	502.9	509.1	515.4	521.6	527.9	534.1	528.0	521.8	515.7	509.5
117.5°	470.4	476.6	482.7	488.9	495.0	501.2	507.3	501.4	495.4	489.5	483.5
120°	443.7	449.6	455.4	461.3	467.1	473.0	478.8	473.2	467.5	461.9	456.2
122.5°	416.6	422.4	428.1	433.9	439.6	445.4	451.1	445.8	440.4	435.1	429.7
125°	389.3	394.9	400.4	406.0	411.5	417.1	422.6	417.4	412.3	407.1	402.0
127.5°	361.1	366.4	371.8	377.1	382.5	387.8	393.2	388.3	383.5	378.6	373.8
130°	332.0	337.1	342.3	347.4	352.6	357.7	362.9	358.2	353.6	348.9	344.3
132.5°	302.0	306.9	311.9	316.8	321.8	326.7	331.7	327.3	323.0	318.6	314.2
135°	273.1	277.7	282.2	286.8	291.4	295.9	300.5	296.5	292.6	288.6	284.6
137.5°	242.8	247.3	251.9	256.4	261.0	265.5	270.1	266.4	262.8	259.1	255.5
140°	211.6	216.7	221.9	227.0	232.2	237.3	242.5	238.8	235.2	231.5	227.8
142.5°	181.0	186.0	191.1	196.1	201.2	206.2	211.3	208.2	205.2	202.1	199.0
145°	151.9	157.0	162.2	167.3	172.5	177.6	182.8	180.0	177.2	174.5	171.7
147.5°	125.1	130.3	135.4	140.6	145.7	150.9	156.0	153.4	150.8	148.3	145.7
150°	99.9	104.6	109.4	114.1	118.9	123.6	128.4	126.2	124.0	121.9	119.7
152.5°	76.4	80.7	85.1	89.4	93.8	98.1	102.5	100.6	98.7	96.9	95.0
155°	54.4	58.3	62.1	66.0	69.9	73.7	77.6	76.2	74.8	73.4	72.0
157.5°	34.8	38.1	41.3	44.6	47.9	51.1	54.4	53.3	52.2	51.1	50.0
160°	18.7	21.1	23.5	25.9	28.2	30.6	33.0	32.2	31.4	30.6	29.8
162.5°	6.3	7.8	9.2	10.7	12.2	13.7	15.2	14.8	14.4	14.0	13.6
165°	1.2	1.6	2.0	2.4	2.8	3.2	3.6	3.6	3.6	3.6	3.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	771.6	772.4	773.2	774.0	774.8	776.2	777.6	779.0	780.4	781.7	783.1
5°	755.8	756.3	756.8	757.3	757.8	759.4	761.0	762.6	764.2	765.7	767.3
7.5°	744.2	744.5	744.8	745.1	745.4	746.8	748.2	749.5	750.9	752.3	753.7
10°	737.7	737.6	737.5	737.4	737.3	738.3	739.3	740.3	741.3	742.3	743.3
12.5°	739.6	738.6	737.6	736.6	735.6	735.8	736.0	736.2	736.4	736.5	736.7
15°	755.7	754.0	752.3	750.6	748.9	746.9	744.9	743.0	741.0	739.0	737.0
17.5°	774.8	773.0	771.3	769.5	767.7	763.5	759.4	755.2	751.0	746.9	742.7
20°	790.0	787.5	785.1	782.6	780.1	775.2	770.4	765.5	760.7	755.8	751.0
22.5°	805.0	802.1	799.3	796.4	793.5	787.8	782.0	776.3	770.5	764.8	759.0
25°	820.5	817.3	814.1	811.0	807.8	801.1	794.3	787.6	780.8	774.1	767.3
27.5°	834.6	831.2	827.9	824.5	821.1	813.4	805.7	797.9	790.2	782.5	774.8
30°	849.1	845.2	841.3	837.5	833.6	824.9	816.2	807.5	798.8	790.0	781.3
32.5°	862.6	858.3	853.9	849.6	845.2	835.3	825.4	815.5	805.6	795.7	785.8
35°	877.1	872.3	867.4	862.6	857.7	846.6	835.5	824.4	813.3	802.2	791.1
37.5°	892.5	887.1	881.8	876.4	871.1	858.8	846.5	834.2	821.9	809.7	797.4
40°	907.0	901.1	895.3	889.4	883.6	870.1	856.6	843.2	829.7	816.2	802.7
42.5°	921.4	915.0	908.7	902.3	896.0	881.1	866.3	851.4	836.6	821.7	806.9
45°	936.7	929.9	923.1	916.2	909.4	893.1	876.7	860.4	844.0	827.7	811.3
47.5°	953.4	946.0	938.5	931.1	923.7	905.7	887.6	869.6	851.6	833.5	815.5
50°	970.4	962.3	954.2	946.0	937.9	918.1	898.3	878.5	858.7	838.8	819.0
52.5°	986.2	977.5	968.7	960.0	951.3	929.7	908.1	886.5	864.9	843.4	821.8
55°	1001.5	992.3	983.1	973.9	964.7	941.3	917.9	894.6	871.2	847.8	824.4
57.5°	1016.0	1006.3	996.6	986.9	977.2	952.2	927.3	902.3	877.3	852.4	827.4
60°	1027.1	1017.3	1007.5	997.7	987.9	961.3	934.8	908.2	881.7	855.1	828.6
62.5°	1033.7	1023.8	1013.9	1004.0	994.1	966.4	938.6	910.9	883.2	855.4	827.7
65°	1036.3	1026.2	1016.1	1006.0	995.9	967.3	938.6	910.0	881.4	852.7	824.1
67.5°	1033.7	1023.8	1013.9	1004.0	994.1	964.8	935.5	906.1	876.8	847.5	818.2
70°	1022.5	1012.5	1002.5	992.5	982.5	953.1	923.7	894.2	864.8	835.4	806.0
72.5°	1002.6	992.9	983.2	973.5	963.8	934.6	905.4	876.1	846.9	817.7	788.5
75°	973.8	964.4	955.0	945.6	936.2	907.5	878.7	850.0	821.3	792.5	763.8
77.5°	937.7	928.4	919.1	909.8	900.5	872.6	844.6	816.7	788.8	760.8	732.9
80°	898.6	889.5	880.4	871.3	862.2	835.2	808.1	781.1	754.0	727.0	699.9
82.5°	860.2	851.8	843.3	834.9	826.5	799.9	773.2	746.6	719.9	693.3	666.6
85°	822.1	813.4	804.7	796.0	787.3	761.6	736.0	710.3	684.6	659.0	633.3
87.5°	783.1	774.8	766.4	758.1	749.8	725.2	700.7	676.1	651.5	627.0	602.4
90°	752.0	743.9	735.7	727.6	719.5	696.0	672.5	649.1	625.6	602.1	578.6
92.5°	725.3	717.4	709.5	701.5	693.6	671.0	648.4	625.9	603.3	580.7	558.1
95°	698.4	691.0	683.6	676.1	668.7	646.9	625.1	603.3	581.5	559.7	537.9
97.5°	673.6	666.6	659.6	652.5	645.5	624.4	603.3	582.2	561.1	540.0	518.9
100°	649.4	642.2	635.0	627.7	620.5	600.2	579.9	559.6	539.3	519.0	498.7
102.5°	627.6	620.3	612.9	605.6	598.3	578.5	558.7	538.8	519.0	499.2	479.4
105°	603.7	596.8	589.9	582.9	576.0	556.6	537.2	517.7	498.3	478.9	459.5
107.5°	579.7	573.0	566.3	559.5	552.8	534.1	515.4	496.6	477.9	459.2	440.5
110°	556.0	549.2	542.4	535.5	528.7	510.7	492.6	474.6	456.6	438.5	420.5



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	529.5	523.0	516.6	510.1	503.7	486.4	469.0	451.7	434.4	417.0	399.7
115°	503.4	497.2	491.1	484.9	478.8	462.2	445.5	428.9	412.2	395.6	378.9
117.5°	477.6	471.6	465.7	459.7	453.8	437.8	421.7	405.7	389.6	373.6	357.5
120°	450.6	444.9	439.3	433.6	428.0	412.5	397.1	381.6	366.2	350.7	335.3
122.5°	424.4	419.0	413.7	408.3	403.0	387.9	372.9	357.8	342.8	327.7	312.7
125°	396.8	391.7	386.5	381.4	376.2	361.6	347.1	332.5	318.0	303.4	288.9
127.5°	368.9	364.1	359.2	354.4	349.5	335.6	321.8	307.9	294.0	280.2	266.3
130°	339.6	335.0	330.3	325.7	321.0	307.8	294.6	281.5	268.3	255.1	241.9
132.5°	309.9	305.5	301.1	296.8	292.4	280.1	267.8	255.6	243.3	231.0	218.7
135°	280.7	276.7	272.7	268.8	264.8	253.4	242.0	230.6	219.2	207.9	196.5
137.5°	251.8	248.2	244.5	240.9	237.2	226.7	216.2	205.7	195.2	184.7	174.2
140°	224.2	220.5	216.8	213.2	209.5	200.1	190.7	181.3	171.9	162.4	153.0
142.5°	196.0	192.9	189.8	186.8	183.7	175.1	166.5	157.8	149.2	140.6	132.0
145°	168.9	166.1	163.4	160.6	157.8	150.1	142.4	134.6	126.9	119.2	111.5
147.5°	143.1	140.5	138.0	135.4	132.8	125.9	118.9	112.0	105.1	98.1	91.2
150°	117.5	115.3	113.2	111.0	108.8	102.8	96.7	90.7	84.6	78.6	72.5
152.5°	93.1	91.2	89.4	87.5	85.6	80.3	75.1	69.8	64.6	59.3	54.1
155°	70.7	69.3	67.9	66.5	65.1	60.6	56.2	51.7	47.3	42.8	38.4
157.5°	49.0	47.9	46.8	45.7	44.6	41.1	37.7	34.2	30.7	27.3	23.8
160°	29.1	28.3	27.5	26.7	25.9	23.8	21.7	19.6	17.5	15.5	13.4
162.5°	13.2	12.8	12.4	12.0	11.6	10.6	9.6	8.6	7.6	6.7	5.7
165°	3.6	3.6	3.6	3.6	3.6	3.3	3.0	2.7	2.4	2.1	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	784.5	785.9	787.3	787.7	788.1	788.5	788.9	789.2	789.6	790.0	790.4
5°	768.9	770.5	772.1	773.0	773.9	774.8	775.7	776.5	777.4	778.3	779.2
7.5°	755.0	756.4	757.8	758.8	759.8	760.8	761.8	762.8	763.8	764.8	765.8
10°	744.3	745.3	746.3	747.0	747.7	748.4	749.1	749.7	750.4	751.1	751.8
12.5°	736.9	737.1	737.3	737.4	737.5	737.6	737.7	737.8	737.9	738.0	738.1
15°	735.1	733.1	731.1	730.1	729.1	728.1	727.1	726.2	725.2	724.2	723.2
17.5°	738.5	734.4	730.2	727.6	725.0	722.5	719.9	717.3	714.7	712.2	709.6
20°	746.1	741.3	736.4	731.4	726.3	721.3	716.2	711.2	706.1	701.1	696.0
22.5°	753.3	747.5	741.8	734.4	726.9	719.5	712.1	704.6	697.2	689.8	682.3
25°	760.6	753.8	747.1	737.2	727.3	717.4	707.5	697.6	687.7	677.8	667.9
27.5°	767.0	759.3	751.6	739.4	727.2	715.0	702.8	690.7	678.5	666.3	654.1
30°	772.6	763.9	755.2	741.1	727.1	713.0	698.9	684.9	670.8	656.7	642.7
32.5°	775.9	766.0	756.1	740.7	725.4	710.0	694.7	679.3	664.0	648.6	633.3
35°	780.0	768.9	757.8	741.2	724.5	707.9	691.3	674.6	658.0	641.4	624.7
37.5°	785.1	772.8	760.5	742.3	724.1	705.8	687.6	669.4	651.2	632.9	614.7
40°	789.3	775.8	762.3	742.7	723.1	703.5	683.9	664.2	644.6	625.0	605.4
42.5°	792.0	777.2	762.3	741.3	720.3	699.3	678.3	657.3	636.3	615.3	594.3
45°	795.0	778.6	762.3	739.8	717.3	694.8	672.3	649.9	627.4	604.9	582.4
47.5°	797.5	779.4	761.4	737.5	713.6	689.8	665.9	642.0	618.1	594.3	570.4
50°	799.2	779.4	759.6	734.2	708.9	683.5	658.2	632.8	607.5	582.1	556.8
52.5°	800.2	778.6	757.0	730.2	703.5	676.7	650.0	623.2	596.5	569.7	543.0
55°	801.1	777.7	754.3	726.2	698.0	669.9	641.8	613.6	585.5	557.4	529.2
57.5°	802.4	777.5	752.5	722.8	693.1	663.3	633.6	603.9	574.2	544.4	514.7
60°	802.0	775.5	748.9	717.7	686.5	655.3	624.1	592.9	561.7	530.5	499.3
62.5°	800.0	772.2	744.5	711.9	679.3	646.7	614.1	581.5	548.9	516.3	483.7
65°	795.5	766.8	738.2	704.0	669.8	635.7	601.5	567.3	533.1	499.0	464.8
67.5°	788.8	759.5	730.2	694.8	659.5	624.1	588.7	553.4	518.0	482.6	447.3
70°	776.5	747.1	717.7	681.5	645.4	609.2	573.1	536.9	500.8	464.6	428.5
72.5°	759.2	730.0	700.8	664.1	627.5	590.8	554.2	517.5	480.9	444.2	407.6
75°	735.1	706.3	677.6	640.9	604.3	567.6	531.0	494.3	457.7	421.0	384.4
77.5°	705.0	677.0	649.1	613.1	577.2	541.2	505.2	469.3	433.3	397.3	361.4
80°	672.9	645.8	618.8	583.7	548.6	513.6	478.5	443.4	408.3	373.3	338.2
82.5°	640.0	613.3	586.7	552.7	518.7	484.7	450.7	416.8	382.8	348.8	314.8
85°	607.6	582.0	556.3	523.4	490.5	457.6	424.7	391.9	359.0	326.1	293.2
87.5°	577.8	553.3	528.7	496.9	465.1	433.3	401.5	369.7	337.9	306.1	274.3
90°	555.2	531.7	508.2	477.3	446.4	415.5	384.6	353.6	322.7	291.8	260.9
92.5°	535.6	513.0	490.4	460.4	430.4	400.3	370.3	340.3	310.3	280.2	250.2
95°	516.1	494.3	472.5	443.1	413.7	384.2	354.8	325.4	296.0	266.5	237.1
97.5°	497.8	476.7	455.6	426.9	398.1	369.4	340.7	311.9	283.2	254.5	225.7
100°	478.4	458.1	437.8	409.8	381.7	353.7	325.6	297.6	269.5	241.5	213.4
102.5°	459.5	439.7	419.9	392.6	365.2	337.9	310.6	283.2	255.9	228.6	201.2
105°	440.0	420.6	401.2	374.7	348.1	321.6	295.0	268.5	241.9	215.4	188.8
107.5°	421.7	403.0	384.3	358.3	332.4	306.4	280.5	254.5	228.6	202.6	176.7
110°	402.5	384.4	366.4	341.1	315.9	290.6	265.4	240.1	214.9	189.6	164.4



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	382.4	365.0	347.7	323.2	298.8	274.3	249.8	225.4	200.9	176.4	152.0
115°	362.3	345.6	329.0	305.3	281.6	258.0	234.3	210.6	186.9	163.3	139.6
117.5°	341.5	325.4	309.4	286.6	263.8	241.0	218.2	195.5	172.7	149.9	127.1
120°	319.8	304.4	288.9	267.2	245.5	223.8	202.1	180.4	158.7	137.0	115.3
122.5°	297.6	282.6	267.5	247.0	226.5	206.0	185.5	164.9	144.4	123.9	103.4
125°	274.3	259.8	245.2	226.0	206.8	187.5	168.3	149.1	129.9	110.6	91.4
127.5°	252.4	238.6	224.7	206.6	188.4	170.3	152.2	134.0	115.9	97.8	79.6
130°	228.8	215.6	202.4	185.7	168.9	152.2	135.4	118.7	101.9	85.2	68.4
132.5°	206.5	194.2	181.9	166.4	151.0	135.5	120.1	104.6	89.2	73.7	58.3
135°	185.1	173.7	162.3	148.0	133.8	119.5	105.2	91.0	76.7	62.4	48.2
137.5°	163.7	153.2	142.7	129.8	116.9	104.0	91.1	78.3	65.4	52.5	39.6
140°	143.6	134.2	124.8	113.0	101.2	89.4	77.6	65.9	54.1	42.3	30.5
142.5°	123.3	114.7	106.1	95.7	85.3	74.9	64.5	54.1	43.7	33.3	22.9
145°	103.7	96.0	88.3	79.4	70.5	61.5	52.6	43.7	34.8	25.8	16.9
147.5°	84.3	77.3	70.4	63.3	56.1	49.0	41.9	34.7	27.6	20.5	13.3
150°	66.5	60.4	54.4	48.9	43.3	37.8	32.2	26.7	21.1	15.6	10.0
152.5°	48.8	43.6	38.3	34.3	30.4	26.4	22.5	18.5	14.6	10.6	6.7
155°	33.9	29.5	25.0	22.4	19.8	17.3	14.7	12.1	9.5	7.0	4.4
157.5°	20.3	16.9	13.4	12.0	10.6	9.2	7.8	6.5	5.1	3.7	2.3
160°	11.3	9.2	7.1	6.4	5.7	5.0	4.3	3.7	3.0	2.3	1.6
162.5°	4.7	3.7	2.7	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.1
165°	1.5	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	790.8	793.3	795.8	798.2	800.7	803.2	805.7	808.1	810.6	813.1	813.3
5°	780.1	783.4	786.7	789.9	793.2	796.5	799.8	803.0	806.3	809.6	810.9
7.5°	766.8	770.8	774.7	778.7	782.6	786.6	790.5	794.5	798.4	802.4	804.9
10°	752.5	757.2	761.8	766.5	771.1	775.8	780.4	785.1	789.7	794.4	798.1
12.5°	738.2	743.2	748.1	753.1	758.0	763.0	767.9	772.9	777.8	782.8	787.6
15°	722.2	727.4	732.7	737.9	743.2	748.4	753.7	758.9	764.2	769.4	775.4
17.5°	707.0	712.3	717.5	722.8	728.0	733.3	738.5	743.8	749.0	754.3	761.6
20°	691.0	696.0	700.9	705.9	710.8	715.8	720.7	725.7	730.6	735.6	744.3
22.5°	674.9	679.5	684.0	688.6	693.1	697.7	702.2	706.8	711.3	715.9	726.2
25°	658.0	662.0	665.9	669.9	673.8	677.8	681.7	685.7	689.6	693.6	705.4
27.5°	641.9	645.1	648.3	651.4	654.6	657.8	661.0	664.1	667.3	670.5	683.9
30°	628.6	630.5	632.4	634.2	636.1	638.0	639.9	641.7	643.6	645.5	660.7
32.5°	617.9	618.0	618.1	618.2	618.3	618.4	618.5	618.6	618.7	618.8	635.7
35°	608.1	606.1	604.1	602.1	600.1	598.2	596.2	594.2	592.2	590.2	609.3
37.5°	596.5	592.6	588.8	584.9	581.0	577.2	573.3	569.4	565.6	561.7	583.0
40°	585.8	579.9	573.9	568.0	562.0	556.1	550.1	544.2	538.2	532.3	555.9
42.5°	573.3	565.3	557.3	549.2	541.2	533.2	525.2	517.1	509.1	501.1	527.1
45°	559.9	549.9	539.9	529.9	519.9	509.9	499.9	489.9	479.9	469.9	497.9
47.5°	546.5	534.5	522.5	510.6	498.6	486.6	474.6	462.7	450.7	438.7	469.0
50°	531.4	517.6	503.9	490.1	476.3	462.6	448.8	435.0	421.3	407.5	440.0
52.5°	516.2	500.5	484.7	469.0	453.2	437.5	421.7	406.0	390.2	374.5	409.3
55°	501.1	483.5	465.8	448.2	430.6	412.9	395.3	377.7	360.0	342.4	379.1
57.5°	485.0	465.7	446.4	427.1	407.8	388.4	369.1	349.8	330.5	311.2	349.7
60°	468.1	447.2	426.3	405.4	384.5	363.6	342.7	321.8	300.9	280.0	320.2
62.5°	451.1	428.6	406.1	383.7	361.2	338.7	316.2	293.8	271.3	248.8	290.6
65°	430.6	406.9	383.2	359.6	335.9	312.2	288.5	264.9	241.2	217.5	260.7
67.5°	411.9	386.6	361.4	336.1	310.9	285.6	260.4	235.1	209.9	184.6	229.3
70°	392.3	365.9	339.6	313.2	286.9	260.5	234.2	207.8	181.5	155.1	200.8
72.5°	370.9	343.8	316.6	289.5	262.3	235.2	208.0	180.9	153.7	126.6	173.1
75°	347.7	320.2	292.6	265.1	237.6	210.0	182.5	155.0	127.4	99.9	146.8
77.5°	325.4	297.6	269.7	241.9	214.1	186.2	158.4	130.6	102.7	74.9	122.0
80°	303.1	275.3	247.4	219.6	191.8	163.9	136.1	108.3	80.4	52.6	99.5
82.5°	280.8	253.3	225.7	198.2	170.7	143.1	115.6	88.1	60.5	33.0	79.4
85°	260.3	233.3	206.2	179.2	152.1	125.1	98.0	71.0	43.9	16.9	62.4
87.5°	242.5	216.1	189.8	163.4	137.1	110.7	84.4	58.0	31.7	5.3	49.6
90°	230.0	204.5	179.1	153.6	128.2	102.7	77.3	51.8	26.4	0.9	43.5
92.5°	220.2	195.7	171.3	146.8	122.3	97.9	73.4	48.9	24.5	0.0	41.1
95°	207.7	184.7	161.7	138.8	115.8	92.8	69.8	46.9	23.9	0.9	40.2
97.5°	197.0	175.1	153.2	131.3	109.4	87.6	65.7	43.8	21.9	0.0	37.6
100°	185.4	164.9	144.4	123.9	103.4	82.9	62.4	41.9	21.4	0.9	36.7
102.5°	173.9	154.7	135.5	116.2	97.0	77.8	58.6	39.3	20.1	0.9	35.2
105°	162.3	144.4	126.4	108.5	90.6	72.6	54.7	36.8	18.8	0.9	33.1
107.5°	150.7	134.1	117.4	100.8	84.1	67.5	50.8	34.2	17.5	0.9	31.4
110°	139.1	123.7	108.4	93.0	77.7	62.3	47.0	31.6	16.3	0.9	29.4



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	127.5	113.4	99.4	85.3	71.2	57.2	43.1	29.0	15.0	0.9	27.3
115°	115.9	103.1	90.3	77.6	64.8	52.0	39.2	26.5	13.7	0.9	25.2
117.5°	104.3	92.8	81.3	69.8	58.3	46.9	35.4	23.9	12.4	0.9	23.0
120°	93.6	83.3	73.0	62.7	52.4	42.1	31.8	21.5	11.2	0.9	20.9
122.5°	82.9	73.8	64.7	55.6	46.5	37.3	28.2	19.1	10.0	0.9	18.8
125°	72.2	64.3	56.4	48.4	40.5	32.6	24.7	16.7	8.8	0.9	16.7
127.5°	61.5	54.8	48.0	41.3	34.6	27.8	21.1	14.4	7.6	0.9	14.2
130°	51.7	46.1	40.4	34.8	29.1	23.5	17.8	12.2	6.5	0.9	11.9
132.5°	42.8	38.1	33.5	28.8	24.2	19.5	14.9	10.2	5.6	0.9	9.7
135°	33.9	30.2	26.6	22.9	19.2	15.6	11.9	8.2	4.6	0.9	7.7
137.5°	26.7	23.8	21.0	18.1	15.2	12.4	9.5	6.6	3.8	0.9	6.1
140°	18.7	16.7	14.7	12.8	10.8	8.8	6.8	4.9	2.9	0.9	4.6
142.5°	12.5	11.2	9.9	8.6	7.3	6.1	4.8	3.5	2.2	0.9	3.6
145°	8.0	7.2	6.4	5.6	4.8	4.1	3.3	2.5	1.7	0.9	2.6
147.5°	6.2	5.6	5.0	4.4	3.8	3.3	2.7	2.1	1.5	0.9	2.1
150°	4.5	4.1	3.7	3.3	2.9	2.5	2.1	1.7	1.3	0.9	1.7
152.5°	2.7	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.1	0.9	1.5
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	1.3
157.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
160°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8
162.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.7
165°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
167.5°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.6
170°	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.6
172.5°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
175°	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLELD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	813.5	813.7	813.9	814.1	814.3	814.5	814.7	814.9	815.7	816.5	817.3
5°	812.2	813.4	814.7	816.0	817.3	818.5	819.8	821.1	823.0	824.9	826.8
7.5°	807.4	809.8	812.3	814.8	817.3	819.7	822.2	824.7	827.8	830.9	833.9
10°	801.7	805.4	809.1	812.7	816.4	820.1	823.7	827.4	831.7	835.9	840.2
12.5°	792.3	797.1	801.8	806.6	811.3	816.1	820.8	825.6	831.4	837.3	843.1
15°	781.5	787.5	793.6	799.6	805.7	811.7	817.8	823.8	831.2	838.7	846.1
17.5°	769.0	776.3	783.6	791.0	798.3	805.6	813.0	820.3	829.8	839.3	848.8
20°	753.0	761.7	770.4	779.2	787.9	796.6	805.3	814.0	826.0	838.0	850.0
22.5°	736.5	746.8	757.1	767.5	777.8	788.1	798.4	808.7	823.4	838.0	852.7
25°	717.2	729.0	740.8	752.5	764.3	776.1	787.9	799.7	817.3	835.0	852.6
27.5°	697.2	710.6	724.0	737.3	750.7	764.1	777.4	790.8	811.4	832.0	852.6
30°	675.8	691.0	706.1	721.3	736.4	751.6	766.7	781.9	805.2	828.5	851.7
32.5°	652.7	669.6	686.5	703.5	720.4	737.3	754.3	771.2	797.2	823.1	849.1
35°	628.4	647.6	666.7	685.8	704.9	724.1	743.2	762.3	790.7	819.2	847.6
37.5°	604.3	625.6	646.9	668.2	689.5	710.8	732.1	753.4	784.2	815.0	845.8
40°	579.5	603.0	626.6	650.2	673.8	697.3	720.9	744.5	777.6	810.7	843.8
42.5°	553.0	579.0	604.9	630.9	656.8	682.8	708.7	734.7	770.0	805.2	840.5
45°	526.0	554.0	582.0	610.1	638.1	666.1	694.2	722.2	759.8	797.5	835.1
47.5°	499.3	529.6	559.9	590.3	620.6	650.9	681.2	711.5	751.0	790.5	830.1
50°	472.5	505.0	537.5	569.9	602.4	634.9	667.4	699.9	741.3	782.7	824.1
52.5°	444.0	478.8	513.6	548.3	583.1	617.9	652.6	687.4	730.5	773.6	816.7
55°	415.9	452.6	489.4	526.1	562.9	599.6	636.4	673.1	718.0	762.9	807.7
57.5°	388.3	426.8	465.3	503.9	542.4	580.9	619.5	658.0	704.8	751.5	798.3
60°	360.4	400.6	440.8	481.1	521.3	561.5	601.7	641.9	690.3	738.8	787.2
62.5°	332.4	374.2	416.0	457.8	499.6	541.4	583.2	625.0	675.1	725.2	775.4
65°	303.9	347.1	390.3	433.5	476.7	519.9	563.1	606.3	658.1	709.9	761.7
67.5°	274.0	318.6	363.3	408.0	452.7	497.3	542.0	586.7	640.1	693.5	746.9
70°	246.5	292.1	337.8	383.5	429.2	474.8	520.5	566.2	620.9	675.6	730.2
72.5°	219.5	266.0	312.5	358.9	405.4	451.9	498.3	544.8	600.2	655.5	710.9
75°	193.6	240.5	287.3	334.2	381.0	427.9	474.7	521.6	577.6	633.5	689.5
77.5°	169.0	216.1	263.1	310.2	357.2	404.3	451.3	498.4	554.4	610.3	666.3
80°	146.3	193.2	240.0	286.9	333.7	380.6	427.4	474.3	530.0	585.7	641.3
82.5°	125.7	172.1	218.4	264.8	311.1	357.5	403.8	450.2	505.4	560.6	615.8
85°	107.9	153.3	198.8	244.3	289.8	335.2	380.7	426.2	480.7	535.2	589.6
87.5°	93.9	138.2	182.5	226.7	271.0	315.3	359.6	403.9	457.4	510.9	564.4
90°	86.1	128.7	171.3	213.9	256.5	299.1	341.7	384.3	436.6	488.9	541.2
92.5°	82.2	123.3	164.4	205.6	246.7	287.8	328.9	370.0	421.3	472.6	523.9
95°	79.5	118.9	158.2	197.5	236.8	276.2	315.5	354.8	405.3	455.9	506.4
97.5°	75.3	112.9	150.6	188.2	225.9	263.5	301.2	338.8	388.6	438.5	488.3
100°	72.4	108.2	144.0	179.7	215.5	251.3	287.0	322.8	371.8	420.9	469.9
102.5°	69.5	103.7	138.0	172.3	206.6	240.8	275.1	309.4	357.3	405.3	453.2
105°	65.3	97.5	129.7	161.9	194.1	226.3	258.5	290.7	337.8	385.0	432.1
107.5°	61.9	92.4	122.9	153.5	184.0	214.5	245.0	275.5	321.4	367.2	413.1
110°	58.0	86.5	115.0	143.6	172.1	200.6	229.2	257.7	302.4	347.1	391.7



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	53.8	80.2	106.7	133.1	159.6	186.0	212.5	238.9	282.5	326.1	369.7
115°	49.4	73.7	98.0	122.2	146.5	170.8	195.0	219.3	261.8	304.3	346.8
117.5°	45.1	67.2	89.3	111.3	133.4	155.5	177.6	199.7	240.8	281.9	323.0
120°	40.9	60.9	80.9	101.0	121.0	141.0	161.0	181.0	220.7	260.4	300.2
122.5°	36.8	54.7	72.6	90.6	108.5	126.4	144.4	162.3	200.4	238.6	276.7
125°	32.4	48.2	63.9	79.7	95.4	111.2	126.9	142.7	179.1	215.4	251.8
127.5°	27.5	40.7	54.0	67.3	80.6	93.8	107.1	120.4	154.7	188.9	223.2
130°	22.9	33.9	44.9	55.9	66.9	77.9	88.9	99.9	131.0	162.1	193.2
132.5°	18.5	27.3	36.1	45.0	53.8	62.6	71.4	80.2	108.2	136.3	164.3
135°	14.6	21.4	28.2	35.1	41.9	48.7	55.6	62.4	87.6	112.7	137.9
137.5°	11.4	16.6	21.9	27.1	32.4	37.6	42.9	48.1	70.4	92.7	115.0
140°	8.2	11.9	15.6	19.2	22.9	26.6	30.2	33.9	53.4	72.9	92.4
142.5°	6.3	8.9	11.6	14.3	17.0	19.6	22.3	25.0	41.6	58.3	74.9
145°	4.3	5.9	7.6	9.3	11.0	12.6	14.3	16.0	30.1	44.2	58.2
147.5°	3.3	4.5	5.7	6.8	8.0	9.2	10.4	11.6	22.9	34.2	45.5
150°	2.5	3.3	4.1	4.8	5.6	6.4	7.2	8.0	16.6	25.2	33.9
152.5°	2.1	2.7	3.3	3.8	4.4	5.0	5.6	6.2	12.4	18.7	24.9
155°	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	8.5	12.4	16.4
157.5°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	5.0	7.3	9.5
160°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.0	4.2	5.4
162.5°	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	1.5	2.1	2.7
165°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.2	0.4	0.6
167.5°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
175°	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	818.1	818.8	819.6	820.4	821.2	822.0	822.4	822.8	823.2	823.6	824.0
5°	828.7	830.5	832.4	834.3	836.2	838.1	839.1	840.1	841.1	842.1	843.0
7.5°	837.0	840.1	843.2	846.2	849.3	852.4	854.3	856.2	858.0	859.9	861.8
10°	844.4	848.7	852.9	857.2	861.4	865.7	868.9	872.1	875.2	878.4	881.6
12.5°	849.0	854.8	860.7	866.5	872.4	878.2	882.7	887.1	891.6	896.0	900.5
15°	853.5	861.0	868.4	875.8	883.3	890.7	896.8	903.0	909.1	915.3	921.4
17.5°	858.3	867.8	877.3	886.8	896.3	905.8	914.2	922.6	931.1	939.5	947.9
20°	862.0	873.9	885.9	897.9	909.9	921.9	932.2	942.5	952.8	963.1	973.4
22.5°	867.3	882.0	896.6	911.3	925.9	940.6	952.3	964.0	975.7	987.4	999.0
25°	870.2	887.9	905.5	923.1	940.8	958.4	971.7	985.0	998.2	1011.5	1024.8
27.5°	873.2	893.9	914.5	935.1	955.7	976.3	990.9	1005.4	1020.0	1034.5	1049.1
30°	875.0	898.3	921.6	944.8	968.1	991.4	1007.5	1023.5	1039.6	1055.6	1071.7
32.5°	875.0	901.0	926.9	952.9	978.8	1004.8	1022.4	1040.1	1057.7	1075.3	1093.0
35°	876.0	904.5	932.9	961.3	989.8	1018.2	1037.5	1056.8	1076.1	1095.4	1114.8
37.5°	876.6	907.5	938.3	969.1	999.9	1030.7	1051.7	1072.7	1093.7	1114.7	1135.7
40°	876.9	909.9	943.0	976.1	1009.2	1042.3	1065.0	1087.7	1110.3	1133.0	1155.7
42.5°	875.8	911.0	946.3	981.6	1016.8	1052.1	1076.5	1100.8	1125.2	1149.6	1173.9
45°	872.8	910.4	948.1	985.7	1023.4	1061.0	1087.2	1113.5	1139.7	1166.0	1192.2
47.5°	869.6	909.1	948.6	988.2	1027.7	1067.2	1095.6	1124.1	1152.5	1180.9	1209.4
50°	865.5	907.0	948.4	989.8	1031.2	1072.6	1103.1	1133.6	1164.1	1194.6	1225.2
52.5°	859.8	902.8	945.9	989.0	1032.1	1075.2	1108.1	1141.0	1173.9	1206.8	1239.7
55°	852.6	897.5	942.4	987.2	1032.1	1077.0	1111.9	1146.8	1181.6	1216.5	1251.4
57.5°	845.0	891.8	938.5	985.3	1032.0	1078.8	1115.7	1152.5	1189.4	1226.2	1263.1
60°	835.7	884.1	932.6	981.0	1029.5	1077.9	1116.5	1155.2	1193.8	1232.4	1271.1
62.5°	825.5	875.6	925.7	975.9	1026.0	1076.1	1116.2	1156.3	1196.5	1236.6	1276.7
65°	813.5	865.4	917.2	969.0	1020.8	1072.6	1113.9	1155.2	1196.5	1237.8	1279.2
67.5°	800.3	853.6	907.0	960.4	1013.8	1067.2	1109.4	1151.6	1193.8	1236.0	1278.2
70°	784.9	839.6	894.3	948.9	1003.6	1058.3	1101.3	1144.3	1187.3	1230.3	1273.3
72.5°	766.3	821.6	877.0	932.4	987.7	1043.1	1086.7	1130.3	1173.9	1217.5	1261.0
75°	745.5	801.4	857.4	913.4	969.3	1025.3	1069.2	1113.1	1157.0	1200.9	1244.7
77.5°	722.3	778.2	834.2	890.2	946.1	1002.1	1045.8	1089.5	1133.2	1176.9	1220.5
80°	697.0	752.7	808.4	864.0	919.7	975.4	1018.7	1062.0	1105.3	1148.6	1191.8
82.5°	671.0	726.1	781.3	836.5	891.7	946.9	989.9	1032.9	1075.9	1118.9	1161.8
85°	644.1	698.6	753.1	807.5	862.0	916.5	958.4	1000.3	1042.2	1084.1	1126.1
87.5°	617.9	671.3	724.8	778.3	831.8	885.3	926.6	967.9	1009.2	1050.5	1091.9
90°	593.5	645.8	698.1	750.4	802.7	855.0	895.0	935.0	975.1	1015.1	1055.1
92.5°	575.2	626.6	677.9	729.2	780.5	831.8	870.7	909.7	948.6	987.5	1026.5
95°	556.9	607.5	658.0	708.5	759.1	809.6	847.9	886.3	924.6	962.9	1001.3
97.5°	538.1	588.0	637.8	687.6	737.5	787.3	824.6	862.0	899.3	936.7	974.0
100°	518.9	568.0	617.0	666.0	715.1	764.1	800.3	836.4	872.6	908.7	944.9
102.5°	501.2	549.1	597.1	645.0	693.0	740.9	776.4	811.8	847.3	882.8	918.2
105°	479.3	526.4	573.6	620.7	667.9	715.0	749.9	784.8	819.6	854.5	889.4
107.5°	459.0	504.8	550.7	596.6	642.4	688.3	722.6	756.9	791.1	825.4	859.7
110°	436.4	481.1	525.8	570.4	615.1	659.8	693.3	726.8	760.2	793.7	827.2



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	413.3	456.8	500.4	544.0	587.6	631.2	663.8	696.4	729.0	761.6	794.2
115°	389.3	431.8	474.3	516.8	559.3	601.8	633.5	665.2	696.9	728.6	760.3
117.5°	364.1	405.3	446.4	487.5	528.6	569.7	600.5	631.3	662.1	692.9	723.8
120°	339.9	379.6	419.3	459.1	498.8	538.5	568.0	597.5	627.1	656.6	686.1
122.5°	314.8	353.0	391.1	429.2	467.4	505.5	533.9	562.4	590.8	619.2	647.7
125°	288.1	324.5	360.8	397.2	433.5	469.9	497.1	524.4	551.6	578.8	606.1
127.5°	257.5	291.7	326.0	360.3	394.5	428.8	455.5	482.1	508.8	535.4	562.1
130°	224.3	255.4	286.5	317.6	348.7	379.8	406.6	433.5	460.3	487.2	514.0
132.5°	192.4	220.4	248.5	276.5	304.6	332.6	359.2	385.9	412.5	439.2	465.8
135°	163.1	188.2	213.4	238.6	263.7	288.9	314.7	340.4	366.2	391.9	417.7
137.5°	137.3	159.6	181.9	204.2	226.5	248.8	272.7	296.5	320.4	344.3	368.1
140°	111.9	131.5	151.0	170.5	190.0	209.5	231.0	252.5	274.0	295.5	317.0
142.5°	91.5	108.2	124.8	141.4	158.1	174.7	193.7	212.7	231.8	250.8	269.8
145°	72.3	86.4	100.5	114.5	128.6	142.7	159.1	175.6	192.0	208.5	224.9
147.5°	56.8	68.0	79.3	90.6	101.9	113.2	127.3	141.3	155.4	169.5	183.5
150°	42.5	51.1	59.7	68.4	77.0	85.6	97.3	109.0	120.7	132.4	144.0
152.5°	31.2	37.4	43.7	49.9	56.2	62.4	71.9	81.4	90.9	100.4	110.0
155°	20.3	24.3	28.2	32.2	36.1	40.1	47.7	55.4	63.0	70.6	78.3
157.5°	11.8	14.1	16.4	18.6	20.9	23.2	28.9	34.7	40.4	46.2	51.9
160°	6.6	7.7	8.9	10.1	11.3	12.5	16.2	19.8	23.5	27.2	30.8
162.5°	3.3	3.8	4.4	5.0	5.6	6.2	8.0	9.8	11.6	13.4	15.1
165°	0.8	1.0	1.2	1.4	1.6	1.8	2.5	3.2	3.9	4.6	5.2
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLEDD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6	800.6
2.5°	824.4	824.8	825.2	825.6	824.7	823.8	822.9	822.0	821.2	820.3	819.4
5°	844.0	845.0	846.0	847.0	846.9	846.8	846.7	846.6	846.5	846.4	846.3
7.5°	863.7	865.5	867.4	869.3	869.5	869.7	869.9	870.1	870.3	870.5	870.7
10°	884.8	887.9	891.1	894.3	894.7	895.1	895.5	895.9	896.2	896.6	897.0
12.5°	904.9	909.4	913.8	918.3	919.5	920.7	921.9	923.1	924.2	925.4	926.6
15°	927.6	933.7	939.9	946.0	948.2	950.4	952.5	954.7	956.9	959.1	961.2
17.5°	956.3	964.8	973.2	981.6	984.3	987.0	989.6	992.3	995.0	997.7	1000.3
20°	983.7	994.0	1004.3	1014.6	1017.9	1021.1	1024.4	1027.7	1030.9	1034.2	1037.5
22.5°	1010.7	1022.4	1034.1	1045.8	1049.8	1053.7	1057.7	1061.7	1065.6	1069.6	1073.6
25°	1038.1	1051.3	1064.6	1077.9	1082.4	1086.8	1091.3	1095.7	1100.2	1104.6	1109.1
27.5°	1063.6	1078.2	1092.7	1107.3	1112.5	1117.6	1122.8	1127.9	1133.1	1138.2	1143.4
30°	1087.7	1103.8	1119.8	1135.9	1141.7	1147.6	1153.4	1159.3	1165.1	1171.0	1176.8
32.5°	1110.6	1128.2	1145.9	1163.5	1170.3	1177.2	1184.0	1190.8	1197.7	1204.5	1211.3
35°	1134.1	1153.4	1172.7	1192.0	1199.5	1207.1	1214.6	1222.1	1229.7	1237.2	1244.7
37.5°	1156.7	1177.7	1198.7	1219.7	1228.0	1236.3	1244.7	1253.0	1261.3	1269.6	1278.0
40°	1178.4	1201.0	1223.7	1246.4	1255.6	1264.8	1274.0	1283.2	1292.5	1301.7	1310.9
42.5°	1198.3	1222.7	1247.0	1271.4	1281.6	1291.8	1302.0	1312.2	1322.4	1332.6	1342.8
45°	1218.5	1244.7	1271.0	1297.2	1308.3	1319.4	1330.5	1341.6	1352.7	1363.8	1374.9
47.5°	1237.8	1266.2	1294.7	1323.1	1335.1	1347.1	1359.1	1371.1	1383.0	1395.0	1407.0
50°	1255.7	1286.2	1316.7	1347.2	1360.2	1373.2	1386.1	1399.1	1412.1	1425.1	1438.0
52.5°	1272.6	1305.5	1338.4	1371.3	1385.1	1398.8	1412.6	1426.4	1440.1	1453.9	1467.7
55°	1286.3	1321.1	1356.0	1390.9	1405.7	1420.4	1435.2	1449.9	1464.7	1479.4	1494.2
57.5°	1299.9	1336.8	1373.6	1410.5	1425.9	1441.2	1456.6	1471.9	1487.3	1502.6	1518.0
60°	1309.7	1348.3	1387.0	1425.6	1441.6	1457.5	1473.5	1489.4	1505.4	1521.3	1537.3
62.5°	1316.8	1357.0	1397.1	1437.2	1453.5	1469.9	1486.2	1502.6	1518.9	1535.3	1551.6
65°	1320.5	1361.8	1403.1	1444.4	1461.0	1477.7	1494.3	1510.9	1527.6	1544.2	1560.8
67.5°	1320.4	1362.6	1404.8	1447.0	1463.7	1480.5	1497.2	1514.0	1530.7	1547.5	1564.2
70°	1316.3	1359.3	1402.3	1445.3	1462.0	1478.8	1495.5	1512.2	1529.0	1545.7	1562.4
72.5°	1304.6	1348.2	1391.8	1435.4	1452.2	1469.1	1485.9	1502.8	1519.6	1536.5	1553.3
75°	1288.6	1332.5	1376.4	1420.3	1436.9	1453.6	1470.2	1486.9	1503.5	1520.2	1536.8
77.5°	1264.2	1307.9	1351.6	1395.3	1411.8	1428.4	1444.9	1461.5	1478.0	1494.6	1511.1
80°	1235.1	1278.4	1321.7	1365.0	1381.4	1397.9	1414.3	1430.8	1447.2	1463.7	1480.1
82.5°	1204.8	1247.8	1290.8	1333.8	1349.7	1365.5	1381.4	1397.2	1413.1	1428.9	1444.8
85°	1168.0	1209.9	1251.8	1293.7	1309.6	1325.6	1341.5	1357.5	1373.4	1389.4	1405.3
87.5°	1133.2	1174.5	1215.8	1257.1	1272.5	1287.8	1303.2	1318.5	1333.9	1349.2	1364.6
90°	1095.1	1135.2	1175.2	1215.2	1230.8	1246.3	1261.9	1277.4	1293.0	1308.5	1324.1
92.5°	1065.4	1104.3	1143.3	1182.2	1197.4	1212.5	1227.7	1242.8	1258.0	1273.1	1288.3
95°	1039.6	1077.9	1116.3	1154.6	1168.8	1182.9	1197.1	1211.3	1225.4	1239.6	1253.8
97.5°	1011.4	1048.7	1086.1	1123.4	1137.2	1150.9	1164.7	1178.5	1192.2	1206.0	1219.8
100°	981.0	1017.2	1053.3	1089.5	1103.3	1117.0	1130.8	1144.6	1158.3	1172.1	1185.9
102.5°	953.7	989.2	1024.6	1060.1	1073.6	1087.0	1100.5	1114.0	1127.4	1140.9	1154.4
105°	924.3	959.1	994.0	1028.9	1042.1	1055.3	1068.4	1081.6	1094.8	1108.0	1121.1
107.5°	894.0	928.2	962.5	996.8	1009.8	1022.8	1035.7	1048.7	1061.7	1074.7	1087.6
110°	860.7	894.1	927.6	961.1	973.8	986.5	999.1	1011.8	1024.5	1037.2	1049.8



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	826.8	859.4	892.0	924.6	937.0	949.4	961.7	974.1	986.5	998.9	1011.2
115°	792.0	823.7	855.4	887.1	899.0	910.9	922.8	934.7	946.5	958.4	970.3
117.5°	754.6	785.4	816.2	847.0	858.5	870.0	881.5	893.0	904.4	915.9	927.4
120°	715.6	745.2	774.7	804.2	815.5	826.8	838.1	849.4	860.6	871.9	883.2
122.5°	676.1	704.5	733.0	761.4	772.3	783.2	794.1	805.0	815.9	826.8	837.7
125°	633.3	660.5	687.8	715.0	725.4	735.8	746.2	756.6	767.1	777.5	787.9
127.5°	588.7	615.4	642.0	668.7	678.5	688.3	698.1	707.9	717.8	727.6	737.4
130°	540.9	567.7	594.6	621.4	630.7	640.0	649.3	658.6	668.0	677.3	686.6
132.5°	492.5	519.1	545.8	572.4	581.9	591.4	600.9	610.4	620.0	629.5	639.0
135°	443.4	469.2	494.9	520.7	529.8	538.9	548.0	557.1	566.3	575.4	584.5
137.5°	392.0	415.9	439.7	463.6	472.8	482.0	491.2	500.4	509.7	518.9	528.1
140°	338.5	360.0	381.5	403.0	412.5	422.0	431.5	441.0	450.6	460.1	469.6
142.5°	288.8	307.9	326.9	345.9	355.6	365.3	375.0	384.7	394.5	404.2	413.9
145°	241.4	257.8	274.3	290.7	300.8	310.9	321.0	331.1	341.2	351.3	361.4
147.5°	197.6	211.7	225.7	239.8	249.9	260.0	270.1	280.2	290.4	300.5	310.6
150°	155.7	167.4	179.1	190.8	200.9	211.0	221.1	231.2	241.3	251.4	261.5
152.5°	119.5	129.0	138.5	148.0	157.5	167.0	176.5	186.0	195.6	205.1	214.6
155°	85.9	93.5	101.2	108.8	117.2	125.6	134.1	142.5	150.9	159.3	167.8
157.5°	57.7	63.4	69.2	74.9	82.1	89.4	96.6	103.8	111.1	118.3	125.5
160°	34.5	38.2	41.8	45.5	51.3	57.2	63.0	68.9	74.7	80.6	86.4
162.5°	16.9	18.7	20.5	22.3	26.3	30.2	34.2	38.2	42.1	46.1	50.1
165°	5.9	6.6	7.3	8.0	10.4	12.8	15.1	17.5	19.9	22.3	24.6
167.5°	1.2	1.4	1.6	1.8	2.7	3.6	4.5	5.4	6.2	7.1	8.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	800.6	800.6
2.5°	818.5	817.6
5°	846.2	846.1
7.5°	870.9	871.1
10°	897.4	897.8
12.5°	927.8	929.0
15°	963.4	965.6
17.5°	1003.0	1005.7
20°	1040.7	1044.0
22.5°	1077.5	1081.5
25°	1113.5	1118.0
27.5°	1148.5	1153.7
30°	1182.7	1188.5
32.5°	1218.2	1225.0
35°	1252.3	1259.8
37.5°	1286.3	1294.6
40°	1320.1	1329.3
42.5°	1353.0	1363.2
45°	1386.0	1397.1
47.5°	1419.0	1431.0
50°	1451.0	1464.0
52.5°	1481.4	1495.2
55°	1508.9	1523.7
57.5°	1533.3	1548.7
60°	1553.2	1569.2
62.5°	1568.0	1584.3
65°	1577.5	1594.1
67.5°	1581.0	1597.7
70°	1579.2	1595.9
72.5°	1570.2	1587.0
75°	1553.5	1570.1
77.5°	1527.7	1544.2
80°	1496.6	1513.0
82.5°	1460.6	1476.5
85°	1421.3	1437.2
87.5°	1379.9	1395.3
90°	1339.6	1355.2
92.5°	1303.4	1318.6
95°	1267.9	1282.1
97.5°	1233.5	1247.3
100°	1199.6	1213.4
102.5°	1167.8	1181.3
105°	1134.3	1147.5
107.5°	1100.6	1113.6
110°	1062.5	1075.2



TEST NUMBER: P201358

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	1023.6	1036.0
115°	982.2	994.1
117.5°	938.9	950.4
120°	894.5	905.8
122.5°	848.6	859.5
125°	798.3	808.7
127.5°	747.2	757.0
130°	695.9	705.2
132.5°	648.5	658.0
135°	593.6	602.7
137.5°	537.3	546.5
140°	479.1	488.6
142.5°	423.6	433.3
145°	371.5	381.6
147.5°	320.7	330.8
150°	271.6	281.7
152.5°	224.1	233.6
155°	176.2	184.6
157.5°	132.8	140.0
160°	92.3	98.1
162.5°	54.0	58.0
165°	27.0	29.4
167.5°	8.9	9.8
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)